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SUPERFUND TECHNICAL ASSESSMENT AND RESPONSE TEAM
EPA CONTRACT 68-W5-0009

24 February 2000
20098-041-001-7212-50
DC No. A-2664

Mr. Charles Schwer
Vermont Agency of Natural Resources
Department of Environmental Conservation
Hazardous Materials Management Division
103 South Main Street/West Building
Waterbury, Vermont 05671-0404

Subject: Final Site Inspection Report #770113
West Burke Auto Body
Burke, Vermont
CERCLIS No. VTD982748410
TDD No. 99-05-0005

Dear Mr. Schwer:

Enclosed is one copy of the Final Site Inspection (SI) Report for the West Burke Auto Body property in Burke, Vermont. The U.S. Environmental Protection Agency Region I (EPA Region I), Office of Site Remediation and Restoration comments regarding the contents of the Draft SI Report have been incorporated. Attachments have been omitted from this final deliverable as no comments or changes to the attachments were requested during the review process.

Please contact the undersigned at (781) 229-6430 if you have any questions regarding this report.

Very truly yours,

ROY F. WESTON, INC.
Region I START

Eric Brochu
Site Leader

Jocelyn Boesch
Project Leader

EB:eb

Enclosure

cc: G. Millan-Ramos (EPA Site Assessment Task Monitor)

**FINAL SITE INSPECTION REPORT
FOR
WEST BURKE AUTO BODY
BURKE, VERMONT**

CONTRACT NO. 68-W5-0009

CERCLIS NO. VTD982748410

TDD NO. 99-05-0005

PCS NO. 7212


DC NO. A-3608

Prepared by:

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24 February 2000

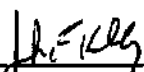
Region I START
Reviewed and Approved:



Eric Brochu
Site Leader

2/24/00

Date

For 

Jocelyn Boesch
Project Leader

2/24/2000

Date



QA Review

2/24/00

Date

DISCLAIMER

This report was prepared solely for the use and benefit of the U.S. Environmental Protection Agency Region I (EPA Region I), Office of Site Remediation and Restoration for the specific purposes set forth in the contract between the EPA Region I and the Roy F. Weston, Inc. (WESTON®), Superfund Technical Assessment and Response Team (START). Professional services performed and reports generated by START have been prepared for EPA Region I purposes as described in the START contract. The information, statements, and conclusions contained in the report were prepared in accordance with the statement of work, and contract terms and conditions. The report may be subject to differing interpretations or misinterpretation by third parties who did not participate in the planning, research or consultation processes. Any use of this document or the information contained herein by persons or entities other than the EPA Region I shall be at the sole risk and liability of said person or entity. START, therefore, expressly disclaims any liability to persons other than the EPA Region I who may use or rely upon this report in any way or for any purpose.

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INTRODUCTION

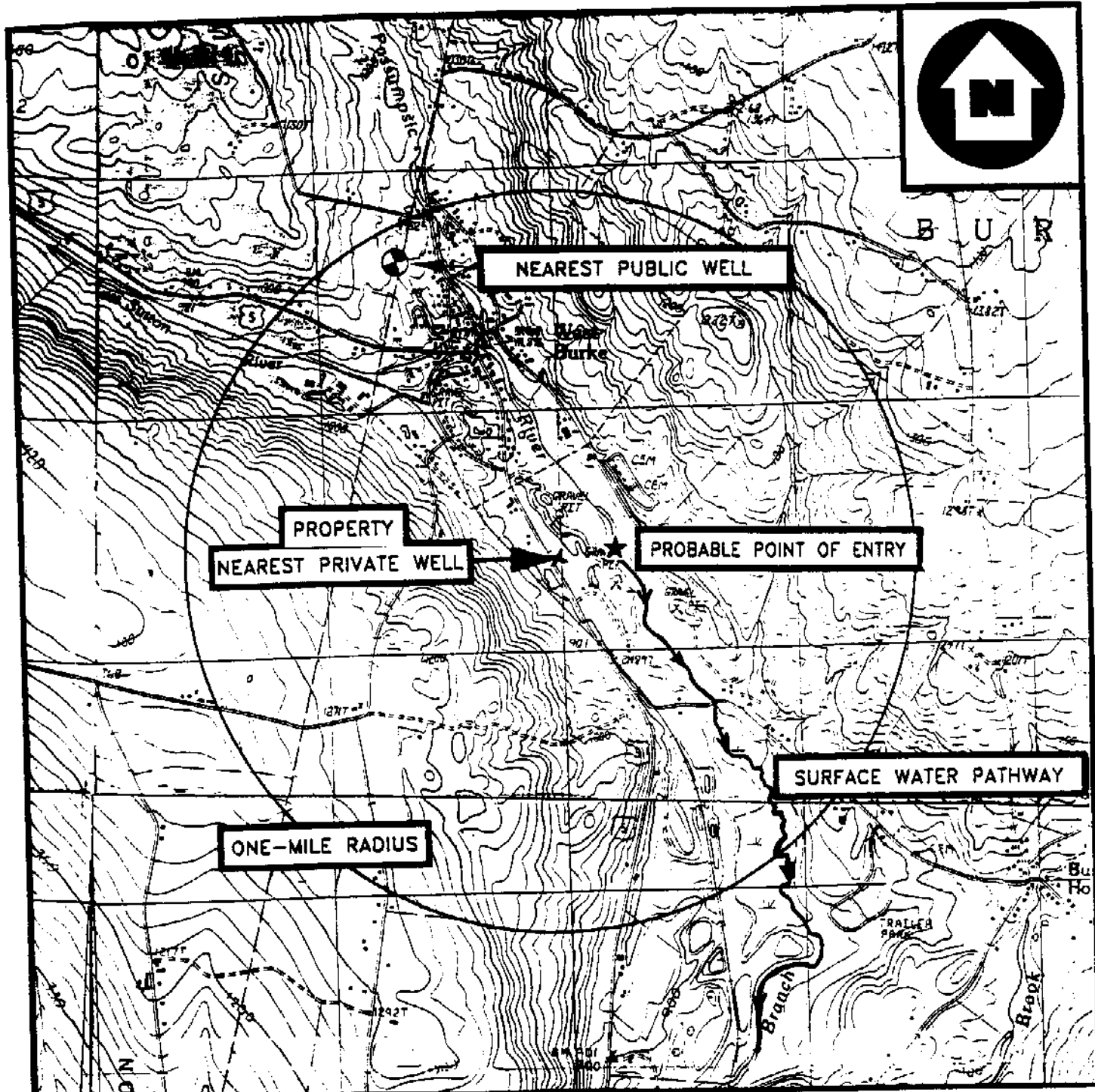
The Roy F. Weston, Inc. (WESTON®) Superfund Technical Assessment and Response Team (START) was requested by the U.S. Environmental Protection Agency Region I (EPA Region I), Office of Site Remediation and Restoration to perform a Site Inspection (SI) of the West Burke Auto Body property at Route 5 in Burke, Vermont. Tasks were conducted in accordance with the SI scope of work and technical specifications provided by EPA Region I. A Preliminary Assessment (PA) report for the West Burke Auto Body property was prepared by the Vermont Agency of Natural Resources (VT ANR) on 17 January 1989. The PA described the disposal of an unknown quantity of waste oil, paint and lacquer thinners, lacquer, and waste paint onto the ground surface. Soil samples collected from the property by the Vermont Department of Environmental Conservation (VT DEC) documented the presence of volatile organic compounds (VOCs) in the soil. On the basis of the information provided in the PA report, the West Burke Auto Body SI was initiated.

Background information used in the generation of this report was obtained through file searches conducted at the EPA Region I and VT DEC, telephone interviews with town officials, conversations with persons knowledgeable of the West Burke Auto Body property, and conversations with other Federal, State, and local agencies.

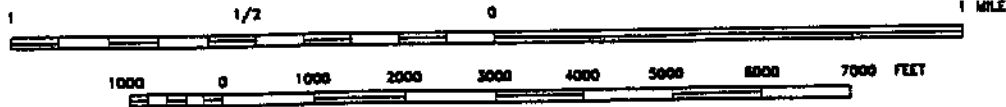
This package follows the guidelines developed under the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA), as amended, commonly referred to as Superfund. However, these documents do not necessarily fulfill the requirements of other EPA Region I regulations such as those under the Resource Conservation and Recovery Act (RCRA) or other Federal, State, or local regulations. SIs are intended to provide a preliminary screening of sites to facilitate EPA Region I's assignment of site priorities. They are limited efforts and are not intended to supersede more detailed investigations.

SITE DESCRIPTION

The West Burke Auto Body (WBAB) property is located along Route 5, Burke, Caledonia County, Vermont at latitude 44° 38' 08.5" north and longitude 71° 58' 36.0" west (Figure 1) [1, p. 1]. Mr. Ray McCoy, owner of the property since 1965, operates a commercial automotive body shop on the property [2]. The Town of Burke Tax Assessor identifies the 0.5-acre property as Map No. 3, Parcel No. 03-04-020 [3]. The WBAB property is bordered to the west by an Irving gasoline station and a residential unit across Route 5, to the north by a residential unit on a wooded plot, to the east by emergent, scrub-shrub and forested wetlands of West Branch Passumpsic River, and an unnamed stream, and to the south by an unnamed intermittent stream and woodland. There are three buildings on the WBAB property, including an on-site residence, the WBAB garage, and a corrugated metal Quonset hut (Figure 2) [3]. No fence or security system restricts access to the property [3, p. 8].



BASE MAP IS A PORTION OF THE FOLLOWING 7.5' MINUTE U.S.G.S. QUADRANGLE(S):
LYNDONVILLE, VT 1986; BURKE MOUNTAIN, VT 1988.



LOCATION MAP

WEST BURKE AUTO BODY
ROUTE 5
BURKE, VERMONT

WESTON
MANAGERS DESIGNERS/CONSULTANTS

REGION 1 SUPERFUND TECHNICAL ASSESSMENT AND RESPONSE TEAM

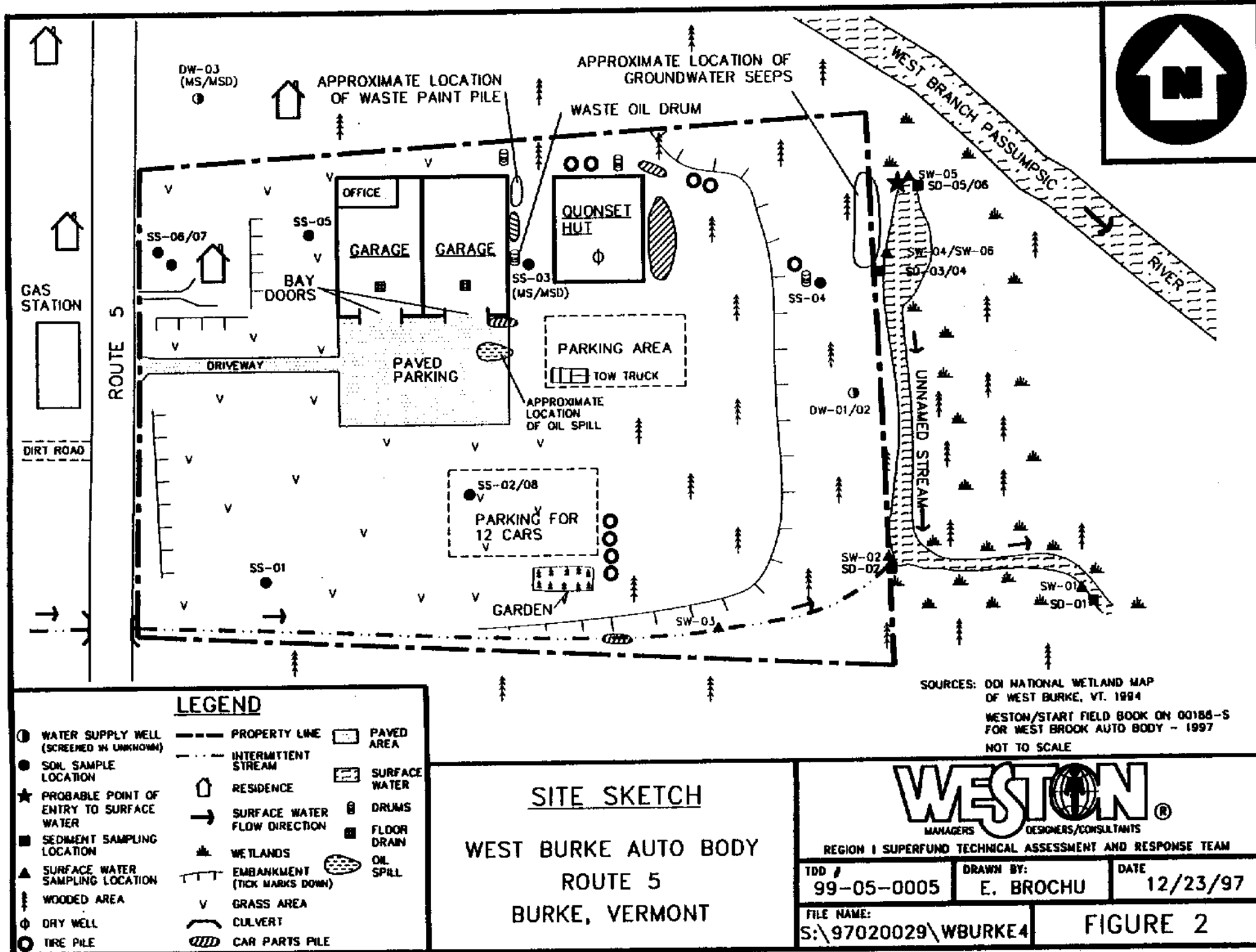
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99-05-0005

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4/11/97

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FIGURE 1



OPERATIONAL AND REGULATORY HISTORY AND WASTE CHARACTERISTICS

Prior to 1965, the WBAB property was a private residence and was owned by Ms. Leela Davis. On 30 April 1965, Mr. McCoy purchased the property from Ms. Davis and built a two-bay garage to be used as a commercial automotive body shop [1, p. 2]. From 1965 to 1983, WBAB repaired 300 to 400 automobiles per year [4]. In November 1987, Mr. McCoy leased half of the garage to Mr. Leon Turmel. Mr. Turmel used the space to operate T-N-T Enterprises, an automobile repair business [4]. Mr. Turmel relocated his business in July 1989 [1, p. 2]. Operations at WBAB currently consist of buying automobiles at auctions and reselling them. Mr. McCoy also builds kit automobiles and stores them on the property. Since 1983, limited automobile body work has been performed on the property [6].

On 15 July 1988, a hazardous waste generator status inspection of the WBAB property was conducted by the Vermont Agency of Natural Resources (VT ANR). Subsequently, the WBAB property was listed on the United States Environmental Protection Agency (EPA) Resource Conservation and Recovery Information System (RCRIS) database as a small quantity generator [7]. During the inspection, it was noted that waste paint and thinner materials had been dumped outside of an east facing garage window and onto the ground surface. START was unable to obtain any information regarding which garage window was used. Residual material in the area had built up to a thickness of approximately 3 inches [1]. During the inspection, VT ANR discovered that Mr. McCoy was attempting to sell half of the WBAB garage to Mr. Turmel of T-N-T Enterprises. However, Mr. Turmel could not receive a bank loan until the property was "declared clean" [6, p. 2].

In 1988, an unspecified volume of contaminated soil was excavated from below the garage window by an unknown local contractor [4].

On 22 July 1988, VT ANR returned to the property to perform field screening of an excavated area and its associated soils (excavated in connection with the pending property transfer to Mr. Turmel). VT ANR performed air monitoring using a photoionization detector (PID) at the WBAB property. PID readings at an unspecified area of the property ranged from 15 to 40 units above background concentrations [5].

On 3 August 1988, VT ANR conducted a limited soil gas survey using a PID. Volatile organic compounds (VOCs) were detected in the soil at concentrations ranging from 10 to 500 units above background concentrations, with the highest readings recorded at the waste paint/lacquer thinner disposal area located below the aforementioned garage window [9]. Information regarding sampling results or locations of samples was not available in the VT ANR files. VT ANR sampled the on-site drinking water well since it is directly downgradient of the waste paint/lacquer thinner disposal area. The drinking water sample was analyzed for VOCs using an unspecified method. The only available information regarding the groundwater sample is that no VOCs were detected above the sample detection limits [8]. There is no information in the Vermont State files detailing the sample detection limits of the groundwater samples.

Soil samples were collected on 22 July 1988, 3 August 1988, and 12 September 1988 by VT ANR, from the vicinity of the soil excavation area, located below the garage window. These samples documented the presence of VOCs including acetone, 2-butanone, methylene chloride, and toluene [1, p. 4]. Concentrations of the compounds detected, information regarding sampling depths, and analytical methods were not available in the Vermont State files [1, p. 4].

An unspecified number of soil samples were again collected from the area below the garage window by VT ANR on 9 December 1988. Sample analysis indicated the presence of methylene chloride, toluene, 2-butanone, and acetone [1, p. 4; 10]. Information regarding soil sample locations, depths, concentrations of compounds detected, and analytical methods used were not available in the Vermont State files.

On 17 January 1989, VT ANR conducted a Preliminary Assessment (PA) of the WBAB property [1, p. 4]. The PA noted that waste paint, lacquer, paint thinner, and lacquer thinner were disposed of directly to the ground surface by dumping them through the previously mentioned garage window. At the time of the PA, wastes generated at the property included Speedy-Dri (used to clean up spills), batteries (sold to a Canadian business in Roch Island, Quebec), and scrap automobile parts. The PA also noted that waste oil had been disposed of to the ground surface outside of the garage bay door. According to Mr. McCoy, the oil had been spilled when he was helping a friend pull out an automobile engine [1, p. 4]. The PA noted that automobile batteries were a potential source of contamination; however, no analytical evidence has been collected to confirm the presence of sulfuric acid contamination [1, p. 4].

The PA also indicated that there were piles of scrap automobile parts and possibly buried automobile parts to the east of the garage, near the West Branch Passumpsic River [1, p. 4]. The PA also noted that a dry well located beneath the Quonset hut was used to dispose of wastes, including paints, paint solvents, and waste oil. Currently, there is no information regarding the length of time wastes were disposed of into the dry well. Floor drains are located in each of the garage bays. The drains, which were covered at the time of the PA, are connected directly to the dry well underneath the Quonset hut [5]. According to the PA, the dry well became clogged with paint material and failed [1, p. 4]. However, at the time of the Roy F. Weston, Inc. (WESTON®) Superfund Technical Assessment and Response Team (START) on-site reconnaissance on 6 June 1999, the floor drains were uncovered [3, p. 3-4].

Currently, there is no additional information detailing whether the drains, piping system, or the dry well became clogged; when it became clogged and failed; the amount of waste disposed of into the dry well; or what was used to cover the drains to the dry well at the time of the PA [1, p. 4].

A memorandum prepared by the VT ANR on 6 November 1989 described interviews with residents of Burke regarding the WBAB property. According to the VT ANR interviews, anonymous residents stated that Mr. McCoy buried automobile parts and aerosol cans less than 100 feet (ft) from the West Branch Passumpsic River [11].

On 6 June 1997, START conducted an on-site reconnaissance of the WBAB property [3]. A majority of the property was unpaved with the exception of one asphalt driveway and parking area [3, p. 5]. START observed approximately 27 automobiles parked on the unpaved areas of the property and automobile parts scattered throughout the property. Mr. McCoy stated that most of the automobiles on the property did not have batteries. The pile of scrap automobile parts near the well, as described by VT ANR in 1989, was not observed by START.

START personnel observed one floor drain in each of the two bays in the garage [3, p. 4]. According to Mr. McCoy, the drains are connected to a dry well located under the Quonset hut [5]. There were approximately 110 gallons of liquids in miscellaneous containers in the east bay of the garage, including two 25-gallon containers of waste-paints which were reportedly later disposed of by Safety-Kleen on an unknown date; two 25-gallon containers (unlabeled and partially full of an unknown liquid); unlabeled, miscellaneous containers with a total volume of approximately 10 gallons; five aerosol cans of paint; three aerosol cans of cleaner; an oxygen cylinder; and an acetylene cylinder [3, p. 4]. The automobile batteries described in the PA were not observed by START personnel [3, p. 6].

Four 55-gallon drums were observed by START scattered around the property. Three of the drums were empty and the fourth drum contained waste oil. Piles of miscellaneous automobile parts and tires were also observed throughout the property [3, p. 4]. START personnel also observed a pile of refuse, tires, small engine parts, and an abandoned vehicle in the unnamed intermittent stream and in the West Branch Passumpsic River [3, p. 10].

During the on-site reconnaissance, START observed that the area to the south of the garage bays appeared to be newly paved with asphalt. This area was not paved during the PA in 1989. The asphalt pavement likely covers the waste oil spill area and the area noted in the 1989 PA [3, p. 9]. Groundwater seeps were also observed along the east side of the property, in the wetland adjacent to West Branch Passumpsic River [3, p. 7].

START personnel conducted a Site Inspection (SI) sampling event on 24 and 25 November 1997 at the WBAB property. START personnel collected eight source/soil samples, six surface water samples, six sediment samples, and three drinking water samples. START samples were analyzed for VOCs, semivolatile organic compounds (SVOCs), pesticides/polychlorinated biphenyls (pest/PCBs), metals, and cyanide through the EPA Region I Contract Laboratory Program (CLP). Sediment samples, as well as the VOC portions of drinking water samples, were analyzed through a Delivery of Analytical Services (DAS) laboratory.

Analytical results from these tests indicate the presence of contaminants throughout the property. The highest concentrations of contaminants were found at the most upstream probable point of entry (PPE) area into the unnamed stream that flows through the wetland east of the property. Sediment and surface water samples collected from this area indicate the presence of aluminum, barium, chromium, lead, mercury, acetone, and methylene chloride. Drinking water samples collected from the on-site well contained barium and potassium. Other contaminants identified on-site include bis(2-ethylhexyl)phthalate, selenium, manganese, di-n-butyl phthalate, butylbenzyl

phthalate, alpha-chlordane, methoxychlor, and aroclor-1254. For more detailed results refer to the appropriate pathway section of this report: groundwater, surface water, soil exposure, and air migration.

Table 1 presents identified structures or areas on the WBAB property that are documented or potential sources of contamination, the containment factors associated with each source, and the relative location of each source.

Table 1
Source Evaluation for West Burke Auto Body

Source Area	Containment Factors	Spatial Location
Pile of Waste Paints	None	On the ground surface below the east facing garage window.
Drains (including pipes leading to the dry well)	None	Located in the garage bays, and run underground to the dry well.
Dry well	None	Underneath the floor of the Quonset hut.
Piles of Scrap Automobile Parts	None	Scattered all over the property.
Waste Oil Drum	None	Between the garage and Quonset hut.
Miscellaneous Containers in Garage	None	Located in the east and west bays of the garage.
Automobile Batteries	None	Located in the garage. *

* Noted at the time of the PA, but not present at the time of the 6 June 1997 START on-site reconnaissance.

[1; 3; 5; 6; 8; 9; 12]

Table 2 summarizes the types of potentially hazardous substances which have been disposed, used, or stored on the WBAB property.

Table 2

**Hazardous Waste Quantity for
West Burke Auto Body**

Substance	Quantity or Volume/Area	Years of Use/Storage	Years of Disposal	Source Area
Waste paint	Unknown	Unknown (After 1965)	Unknown (After 1965)	Contaminated Soil, Dry Well, Miscellaneous Containers, Drains
Lacquer	Unknown	Unknown (After 1965)	Unknown (After 1965)	Contaminated Soil
Lacquer and Paint Thinners	Unknown	Unknown (After 1965)	Unknown (After 1965)	Contaminated Soil, Dry Well, Drains
Waste Oil	One 55-gallon drum	Unknown (After 1965)	Unknown (After 1965)	Waste Oil Drum, Dry Well, Drains
Metal Debris	Approximately 250 ft ²	Unknown (After 1965)	Unknown (After 1965)	Piles
Miscellaneous Liquids *	Approximately 60 gallons	Unknown (After 1965)	Unknown (After 1965)	Miscellaneous Containers in Garage
Methylene Chloride	Unknown	Unknown (After 1965)	Unknown (After 1965)	Contaminated Soil
Toluene	Unknown	Unknown (After 1965)	Unknown (After 1965)	Contaminated Soil
Acetone	Unknown	Unknown (After 1965)	Unknown (After 1965)	Contaminated Soil
Methyl Ethyl Ketone	Unknown	Unknown (After 1965)	Unknown (After 1965)	Contaminated Soil

* = These containers included waste paints, enamel, upholstery cleaner, an oxygen cylinder, an acetylene cylinder, and unlabeled containers.

ft² = Square feet.

[1; 3; 4; 5; 8]

No Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) or National Priority List sites are located within 1-radial mile of the WBAB property. Burke Lumber Company is the only RCRIS hazardous waste generator located within 1-radial mile of WBAB property [7, 36].

WASTE/SOURCE SAMPLING

According to available information, waste/source (soil) samples were collected on three occasions in 1988 by VT ANR that contained elevated concentrations of acetone, methyl ethyl ketone, methylene chloride, and toluene [1, p. 4]. Specific concentrations of the contaminants were not listed in the available information.

On 24 and 25 November 1997, START personnel collected eight waste/source (soil) samples from the WBAB property. The waste/source samples were analyzed for VOCs, SVOCs, pest/PCBS, total metals, and cyanide through the CLP. Waste/source samples collected by START are presented in Table 3.

Table 3

**Sample Summary: West Burke Auto Body
Waste/Source Samples Collected by START on 24 and 25 November 1997**

Sample Location No.	Traffic Report No.	Time (hours)	Remarks	Sample Source
MATRIX: Source (Soil)				
SS-01	ANL40 MAKZ22	1150	Grab 12" to 18" bgs	Waste/Source sample collected east of Route 5 and south of the on-site residence. Location: 216 feet at 175° from the telephone pole located west of the on-site residence. Soil material consisted of light brown topsoil with organic matter and pebbles.
SS-02	ANL41 MAKZ23	1315	Grab 14" to 24" bgs	Soil sample collected among automobile bodies, south of the driveway. Location: 96 feet at 169° from the southwest corner of the WBAB garage. Soil material consisted of red-brown sand and clay with organic matter.
SS-03	ANL42 MAKZ24	1250	Grab 12" to 24" bgs	Soil sample collected approximately 3 feet east of the southeastern window of the West Burke Auto Body garage, between the garage and Quonset hut. Location: 13.5 feet at 72° off north from the southeastern corner of the West Burke Auto Body garage.
SS-04	ANL43 MAKZ25	1430	Grab 6" to 16" bgs	Soil sample collected from the slope on the eastern property boundary, approximately 12 feet west and upgradient of the wetlands. Location: 29 feet at 351° from the northeast corner of the on-site drinking water well. Soil material consisted of highly organic loam and sand.

Table 3

**Sample Summary: West Burke Auto Body
Waste/Source Samples Collected by START on 24 and 25 November 1997 (Concluded)**

Sample Location No.	Traffic Report No.	Time (hours)	Remarks	Sample Source
SS-05	ANL44 MAKZ26	1115	Grab 8" to 14" bgs	Soil sample collected approximately 3 feet west of the northwestern window of the garage. Location: 26 feet at 220.5° from the northwest corner of the garage, approximately 60 feet from the on-site residence. Soil material consisted of brown topsoil with organic matter and 1-inch pebbles.
SS-06	ANL45 MAKZ27	1100	Grab 8" to 14" bgs	Soil sample collected as a reference sample. Location: 24 feet at 165° from the telephone pole, west of the on-site residence. Soil material consisted of brown topsoil with organic matter and 1-inch pebbles.
SS-07	MAKZ28	1100	Grab 8" to 14" bgs	Soil sample collected adjacent to SS-06 location, for metals analysis only. Location: 24 feet at 165° from the telephone pole in front of the on-site residence. Soil material consisted of brown topsoil with organic matter and 1-inch pebbles.
SS-08	ANL73 MAKZ54	1315	Grab 14" to 24" bgs	Duplicate of SS-02 for quality control. Location: 96 feet at 169° off north from the southwest corner of the West Burke Auto Body garage.

WBAB = West Burke Auto Body.

bgs = Below ground surface.

[3]

Table 4 is a summary of organic compounds and inorganic elements detected through CLP analyses of START waste/source samples. For each sample location, a compound or element is listed if it is detected at three times or greater than the reference sample concentration (SS-06/SS-07). However, if the compound or element is not detected in the reference sample, the reference sample's sample quantitation limit (SQL) (for organic analyses) or sample detection limit (SDL) (for inorganic analyses) is used as the reference value.

Table 4

**Summary of Analytical Results,
Waste/Source Sample Analysis for West Burke Auto Body
24 and 25 November 1997**

Sample Location	Compound/ Element	Sample Concentration		Reference Concentration		Comments
SS-01 ANL40 MAKZ22	PEST/PCBs					
	Methoxychlor	24	µg/kg	22	U µg/kg	1.1 × SQL
	alpha-Chlordane	3.5	µg/kg	2.2	U µg/kg	1.6 × SQL
SS-02 ANL41 MAKZ23	SVOCs					
	Di-n-butylphthalate	1,100	J µg/kg	430	UJ µg/kg	2.6 × SQL
	Butylbenzyl phthalate	13,000*	J µg/kg	94	J µg/kg	138 × Ref
	INORGANICS					
	Barium	318	mg/kg	28.1	mg/kg	11.3 × Ref
	Lead	165	J mg/kg	36.4	J mg/kg	4.53 × Ref
	Zinc	136	J mg/kg	41.3	UJ mg/kg	3.29 × SDL
SS-05 ANL44 MAKZ26	SVOCs					
	Butylbenzyl phthalate	460	J µg/kg	94	J µg/kg	4.9 × Ref
	Bis(2-ethylhexyl)phthalate	460	J µg/kg	55	EBJ µg/kg	8.4 × Ref
SS-08 ANL73 MAKZ54	SVOCs					
	Di-n-butylphthalate	1,300	J µg/kg	430	UJ µg/kg	3.0 × SQL
	Butylbenzyl phthalate	6,000*	J µg/kg	94	J µg/kg	63.8 × Ref
	Bis(2-ethylhexyl)phthalate	500	EBJ µg/kg	55	EBJ µg/kg	9.1 × Ref
	PEST/PCBs					
	Aroclor-1254	76	µg/kg	43	U µg/kg	1.8 × SQL

Table 4

Summary of Analytical Results
Waste/Source Sample Analysis for West Burke Auto Body
24 and 25 November 1997 (Concluded)

Sample Location	Compound/Element	Sample Concentration	Reference Concentration	Comments
SS-08 ANL73 MAKZ29 (Concluded)	INORGANICS			
	Barium	423 mg/kg	28.1 mg/kg	15.1 × Ref
	Lead	245 J mg/kg	36.4 J mg/kg	6.73 × Ref
	Zinc	176 J mg/kg	41.3 UJ mg/kg	4.26 × SDL

Ref = Reference value.

J = Quantitation is approximate due to limitations identified during the quality control review.

U = Indicates the substance was analyzed for but not detected; the associated numerical value is the detection value.

UJ = The reported quantitation limits are qualified estimated.

Pest/PCBs = Pesticide/Polychlorinated biphenyls.

SVOCs = Semivolatile organic compounds.

SQL = Sample Quantitation Limit.

SDL = Sample Detection Limit.

µg/kg = Micrograms/kilogram.

mg/kg = Milligrams per kilogram.

EB = Also found in equipment blank.

* = Results reported from diluted analysis.

[29-35]

Complete analytical results of START waste/source samples including quantitation and detection limits are presented in Attachment A. Sample results quantified with a "J" on analytical tables are considered approximate because of limitations identified during CLP data validation. In addition, organic sample results reported at concentrations below quantitation limits and confirmed by mass spectrometry are also qualified by a "J" and considered approximate.

No VOCs were detected in soil samples collected from the WBAB property.

Three SVOCs were detected at the WBAB property. Di-n-butylphthalate was detected at 1,100 µg/kg in sample SS-02. Sample SS-05, located within 200 ft of Mr. McCoy's on-site residence, was found to contain butylbenzyl phthalate at 460 micrograms per kilogram (µg/kg), and bis(2-ethylhexyl)phthalate at 460 µg/kg [29 - 35]. Both substances are plasticizers, and are used in the production of flexible plastic parts commonly found in automobiles [40, p. 1; 41, p. 1].

Two pesticides and one PCB were also detected at the WBAB property. Methoxychlor was detected in sample SS-01 at 24 µg/kg, and alpha-chlordane was detected at 3.5 µg/kg, also in sample SS-01. Aroclor-1254 was detected at 76 µg/kg in sample SS-08. PCBs are not known to have been used or stored on the WBAB property.

Three metals were detected in surficial soil samples collected from the WBAB property. All three were detected in samples SS-02, and SS-08 (replicate of SS-02). Barium was detected in sample SS-08 at 423 $\mu\text{g/kg}$, lead was detected at 245 mg/kg (SS-08), and zinc was detected at 176 mg/kg (SS-08). Barium, zinc and lead were also detected in drinking water and surface water samples as well as in source/soil samples.

START performed source sampling as part of the WBAB SI to characterize contaminants on site related to previous activities. Analytical results from both the 1988 source sampling by VT ANR and waste/source sampling conducted by START, documented a release of hazardous substances which are at least partially attributable to on-site sources. An unknown volume of contaminated soil was reportedly excavated from the area below the garage window in 1988 by an unknown party.

GROUNDWATER PATHWAY

Bedrock in the area of the WBAB property is comprised of gray quartzose and micaceous crystalline limestone weathered to a distinctive brown earthy crust, interbedded and intergradational with gray quartz-muscovite phyllite or schist of the Waits River Formation [1, p. 2]. No bedrock formation mapped within 4-radial miles of the property exhibits karst characteristics. Depth to bedrock beneath the WBAB property is unknown. Soils within the area are mapped as belonging to the Windsor, gravelly-Windsor association. The soils are defined as excessively drained, sandy and gravelly soils low in lime, occurring in deltas and terraces along rivers and streams [1, pp. 2, 3]. Surficial geology at the property consists of swamp and peat deposits, and Recent Alluvium. Glacial deposits in the area also consist of kame terrace and till deposits [13]. Depth to groundwater beneath the WBAB property is approximately 7 ft below ground surface (bgs) [12]. Groundwater flow below the property is assumed to be in a southeasterly direction towards the West Branch Passumpsic River [17]. Annual precipitation, as measured in Burke, Vermont is 40.3 inches [28].

No groundwater monitoring wells are located on the property. An estimated 1,092 people obtain drinking water from public and private groundwater wells located within 4-radial miles of the WBAB property [14]. There are three public drinking water supplies within 4-radial miles of the WBAB property. The Burke public water supply is located 0.8 miles northwest of the property. This system serves 57 people and is located within the Town of Burke. The Burke Mobile Estates public water supply is located in Burke Hollow, 1.3 miles southeast of the WBAB property. This public water supply serves 30 people. The Lyn Haven Inc., well serves 114 people and is located in Lyndon, 3.9 miles south of the WBAB property [1; 15].

The nearest private groundwater drinking water well is located on the property, and is a potable drinking water source [1, p. 4; 3, p. 7]. The on-site well is approximately 300 ft downgradient of the nearest source area [3, p. 7]. This well serves one person [5].

Table 5 summarizes public groundwater supply sources located within 4-radial miles of the WBAB property.

Table 5

**Public Groundwater Supply Sources Within 4-Radial Miles of
West Burke Auto Body**

Distance/ Direction from Site	Source Name	Location of Source ^a	Estimated Population Served	Source Type ^b
0.8 miles/Northwest	West Burke Housing	West Burke	57	Bedrock
1.3 miles/Southeast	Burke Mobile Estates	Burke Hollow	30	Overburden
3.9 miles/South	Lyn Haven Inc.	Lyndon	114	Bedrock

^a Indicates Town in which well is located.

^b Overburden, Bedrock, or Unknown.

[1; 14; 15]

Private groundwater supplies within 4-radial miles of the WBAB property were estimated using equal distribution calculations utilizing U.S. Census CENTRACTS data identifying population, households, and private water wells for "Block Groups" which lie within or partially within individual radial distance rings of the property [14]. In addition, local water departments were contacted to determine the nearest private drinking water well [15; 16]. The following table identifies the estimated drinking water populations served by groundwater sources within 4-radial miles of the WBAB property. The nearest private residence is located on-site, this residence receives its water from a private on-site well.

Table 6

**Estimated Drinking Water Populations Served by Groundwater Sources
Within 4-Radial Miles of West Burke Auto Body**

Radial Distance From West Burke Auto Body (miles)	Estimated Population Served by Private Wells	Estimated Population Served by Public Wells	Total Estimated Population Served by Groundwater Sources Within the Ring
> 0.00 to 0.25	7	0	7
> 0.25 to 0.50	22	0	22
> 0.50 to 1.00	71	57	128
> 1.00 to 2.00	254	30	284
> 2.00 to 3.00	269	0	269
> 3.00 to 4.00	268	114	382
TOTAL	891	201	1,092

[1; 14; 15; 16]

The on-site drinking water well was sampled in 1988 by VT ANR [9]. The drinking water well sample was analyzed for VOCs by an unspecified method. No VOCs were detected above an unspecified detection limit [9]. Further information regarding the collection and analysis of the aforementioned sample was unavailable to START.

On 24 and 25 November 1997, START personnel collected two drinking water samples (DW-01/02) from the WBAB property, and a reference sample (DW-03) from a well on an adjacent property. Drinking water samples were analyzed for low concentration VOCs, SVOCs, pest/PCBs, total metals, and cyanide. Drinking water samples collected by START are presented in Table 7.

Table 7

**Sample Summary: West Burke Auto Body Drinking Water
Samples Collected by START on 24 and 25 November 1997**

Sample Location No.	Traffic Report No.	Time (hours)	Remarks	Sample Location No.
MATRIX: Aqueous				
DW-01	DAFH13 ANL46 MAKZ29	0900	Grab	Drinking water sample collected from the on-site kitchen faucet. There was no filter or aerator present in the water system.
DW-02	DAFH14 ANL47 MAKZ30	0912	Grab	Replicate sample of DW-01.
DW-03 (Matrix Spike/ Matrix Spike Duplicate)	DAFH15 ANL48 MAKZ31	1605	Grab	Drinking water sample collected as a reference sample from the kitchen faucet of an off-site residence abutting the West Burke Auto Body property to the north. The filter was bypassed and the aerator was removed prior to collecting the sample.

[29 - 35]

START collected three groundwater samples from two drinking water wells as part of the WBAB property SI. Samples were collected from the tap, pre-treatment. The reference well (DW-03) is located on the adjacent property, approximately 50 ft from the northwest corner of the WBAB property. The 100 ft deep well (DW-03) is upgradient/crossgradient of the WBAB well, and screened in bedrock. The WBAB property well is located approximately 300 ft east of the garage, on the slope leading down to the unnamed stream. The WBAB well is an overburden well, and is approximately four ft deep [3, p. 7]. START has no reason to believe that the overburden and the bedrock aquifers in this area are not interconnected, however, the reference well may not reflect background conditions in the target well due to depth, location and well construction, therefore analytical data from the two wells will not be compared.

There were no VOCs, SVOCs, pesticides or PCBs detected in the reference well. However, a total of 13 inorganic elements were detected in the reference well, including cadmium (1.6 µg/L), chromium (1.7 µg/L), copper (343 µg/L), lead (15.2 µg/L), and zinc (59.6 µg/L). Only lead was detected above health based benchmarks: Vermont Groundwater Quality Standards, 5.0 µg/L; MCL (Maximum Concentration Limit), 15.0 µg/L [37, p. B34; 39, pp. 28-32]. While these substances may be partially attributable to processes performed at WBAB, it should also be noted that they are naturally occurring substances.

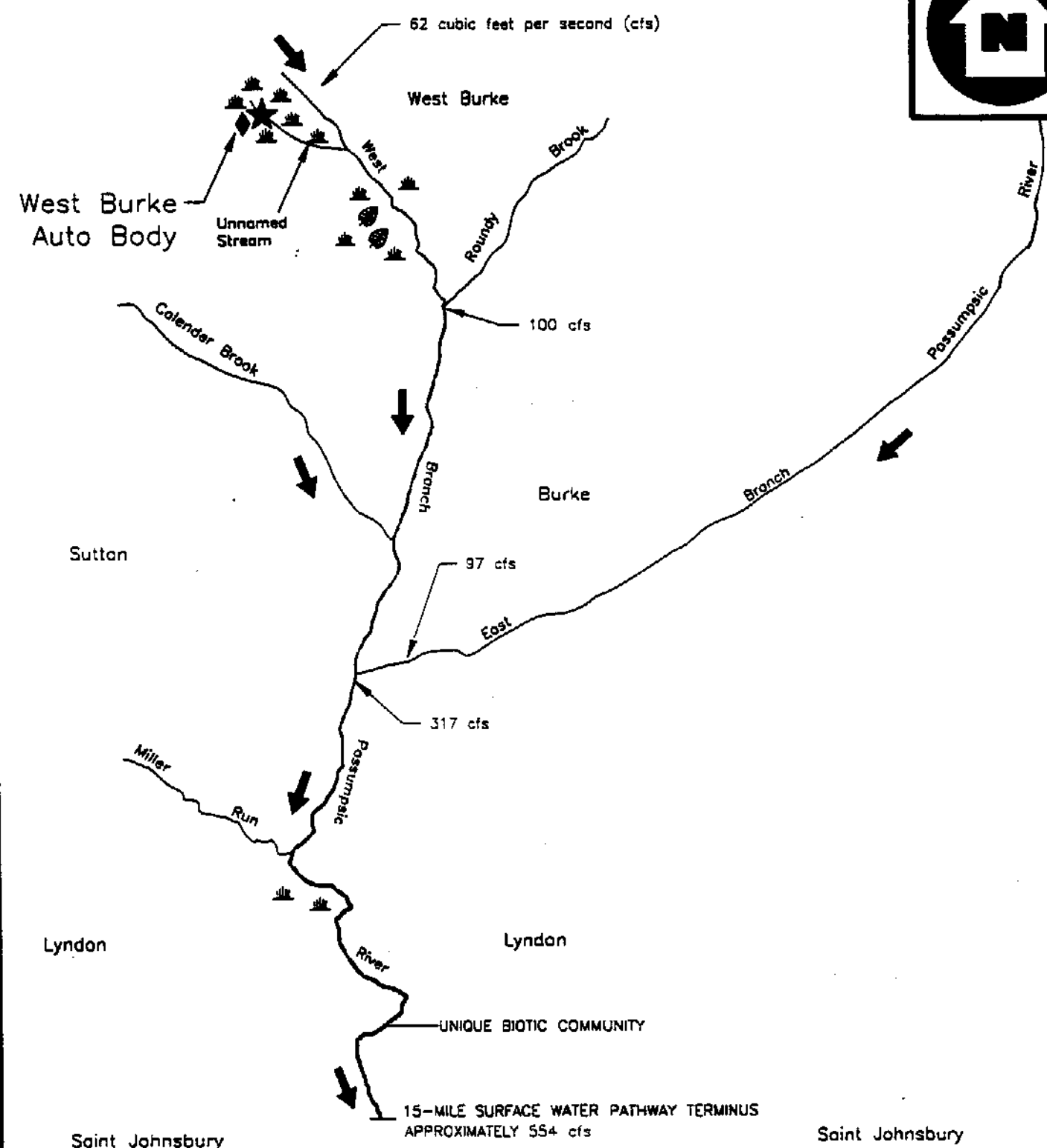
There were no VOCs, SVOCs, pesticides or PCBs detected in the WBAB well. However, there were eight inorganic elements detected in the WBAB well, including barium at 15.1 µg/L (DW-01 and DW-02), copper at 28.8 µg/L (DW-01) and 32.0 µg/L (DW-02), and zinc at 9.9 µg/L (DW-01) and 21.6 µg/L (DW-02). No substances were detected above Vermont Groundwater Quality Standards, or MCLs [37; 39, pp. 28-32]. Barium is frequently used in many aspects of automobile manufacture and repair, including: the production of paints and enamels, as an additive in lubricating oils, engine rod bearings, and spark plugs [42, pp. 1 and 5]. Copper is used extensively in the electrical wiring of automobiles. Zinc is used for galvanizing steel, and in paint [46, pp. 1 and 5]. Barium and zinc were also detected in soil and surface water samples collected from the WBAB property. Although all three substances are naturally occurring, their presence could be partially attributable to the on-site repair and storage/disposal of automobiles and associated substances.

SURFACE WATER PATHWAY

The topography of the WBAB property slopes gently to the southeast. Surface water runoff from the property is assumed to flow south and east, toward the unnamed stream and the unnamed intermittent stream, respectively. Surface water runoff from the western portion of the property is assumed to flow south toward the unnamed intermittent stream, located along the southern property boundary. Surface water runoff from the eastern portion of the property is assumed to flow east toward the unnamed stream, located approximately 300 ft east of the garage. The most upstream PPE to surface water from the property is presumed to be through overland runoff to the unnamed stream. Wetlands abut the property to the east and southeast, and are also located between the unnamed stream and its confluence with the West Branch Passumpsic River. The intermittent stream converges with the unnamed stream approximately 300 ft southeast of the PPE. This stream then converges with the West Branch Passumpsic River [3, p. 5].

Surface water bodies along the 15-mile downstream pathway from the property include the unnamed stream, West Branch Passumpsic River and Passumpsic River. The unnamed stream converges with West Branch Passumpsic River approximately 300 feet further downstream from the convergence of the unnamed intermittent stream and the unnamed stream. West Branch Passumpsic River then flows south for approximately 7.4 miles to Passumpsic River. Passumpsic River flows south for approximately 7.5 miles where the terminus of the 15-mile downstream pathway occurs in the Town of St. Johnsbury, Vermont [17; 18; 19; 20]. The unnamed stream, West Branch Passumpsic River and Passumpsic River are used as recreational fisheries [1, p. 2; 21]. No known surface water intakes are located along the 15-mile downstream pathway from the property (Figure 3) [21].

Table 9 summarizes surface water bodies along the 15-mile downstream pathway from the property.



Drawing based upon US Geological Survey West Burke, Vermont, Burke Mountain, Vermont, Lyndonville, Vermont, and St. Johnsbury, Vermont, 7.5 minute topographic maps.

NOT TO SCALE

LEGEND	
	STATE-THREATENED SPECIES
	SURFACE WATER FLOW DIRECTION
	WETLAND
	WEST BURKE AUTO BODY PROPERTY
	PROBABLE POINT OF ENTRY

SURFACE WATER PATHWAY SKETCH
 WEST BURKE AUTO BODY
 ROUTE 5
 BURKE, VERMONT

MANAGERS DESIGNERS/CONSULTANTS

REGION 1 SUPERFUND TECHNICAL ASSESSMENT AND RESPONSE TEAM		
TDD No. 99-05-0005	DRAWN BY: C. SKLANEY	DATE: 10/09/97
FILE: S:\97020029\WBURKE3.DWG		FIGURE 3

Table 9

**Surface Water Bodies Along the 15-Mile Downstream Pathway from
West Burke Auto Body**

Surface Water Body	Descriptor ^a	Length of Reach (miles)	Flow Characteristics (cfs) ^b	Length of Wetland Frontage (miles)
Unnamed Stream	Minimal stream	0 - 0.1	7.2	0.1
West Branch Passumpsic River	Small to Moderate Stream	0.1 - 2.5	62	0.7
West Branch Passumpsic River	Moderate to Large Stream	2.5 - 7.5	317	0.5
Passumpsic River	Moderate to Large Stream	7.5 - 15.0	554	2.8

- ^a Minimal stream <10 cfs. Small to moderate stream 10-100 cfs. Moderate to large stream >100-1,000 cfs. Large stream to river >1,000-10,000 cfs. Large river >10,000-100,000 cfs. Very large river >100,000 cfs. Coastal tidal waters (flow not applicable). Shallow ocean zone or Great Lake (flow not applicable). Moderate depth ocean zone or Great Lake (flow not applicable). Deep ocean zone or Great Lake (flow not applicable). Three-mile mixing zone in quiet flowing river 10 cfs or greater.

- ^b Cubic feet per second.

Note: Flow characteristics were determined by measuring the drainage basins of the West Branch Passumpsic River and Passumpsic River. A transparent grid was used to calculate the square miles in each basin. This mileage was then converted to cubic feet per second using the conversion factor of 1.8 cfs per square mile. The flow rate for the unnamed stream was estimated to be <10 cfs for the purposes of the SI.

[23 - 30]

Sensitive environments located along the 15-mile surface water pathway include a Clean Water Act-protected water body and an estimated 4 miles of wetland frontage [23-27]. There is also a habitat for a State-threatened species located approximately 2 miles downstream, as well as a significant natural community located approximately 11 miles downstream from the PPE [37]. Table 10 summarizes the sensitive environments along the 15-mile downstream pathway from the WBAB property.

Table 10

**Sensitive Environments Along the 15-Mile Downstream Pathway from
West Burke Auto Body**

Sensitive Environment Name	Sensitive Environment Type	Water Body	Downstream Distance from PPE (miles)	Flow Rate at Environment (cfs)*
Unnamed stream	Clean Water Act	Unnamed stream	0 - 0.1	7.2
Unnamed stream	Wetlands (0.1)	Unnamed stream	0 - 0.1	7.2
West Branch Passumpsic River	Wetlands (0.7)	West Branch Passumpsic River	0.1 - 2.5	62
Habitat for State-Threatened Species	Habitat for State-Threatened Species	West Branch Passumpsic River	0.1 - 2.5	62
West Branch Passumpsic River	Wetlands (0.5)	West Branch Passumpsic River	2.5 - 7.5	317
Passumpsic River	Wetlands (2.8)	Passumpsic River	7.5 - 15.0	554
Unique Biotic Community	Unique Biotic Community	Passumpsic River	7.5 - 15.0	429

* Cubic feet per second

PPE = Probable point of entry.

[23-29; 38]

Prior to the START sampling event, no known surface water or sediment samples were collected from any portion of the surface water pathway associated with the WBAB property.

During the 6 June 1997 START on-site reconnaissance, scrub-shrub and forested wetlands were observed on the east side of the property, in the low-lying area surrounding the unnamed stream. Tires, scrap automobile parts, an abandoned vehicle, and miscellaneous debris were observed in the wetlands and in the unnamed stream [3, p. 10].

On 24 and 25 November 1997, START personnel collected six surface water and six sediment samples from the surface water pathway associated with the WBAB property. All of the surface water/sediment samples were analyzed for VOCs, SVOCs, pest/PCBs, total metals, and cyanide. Sample summary information for surface water and sediment samples collected by START are presented in Table 11.

Table 11

Sample Summary: West Burke Auto Body
Surface Water/Sediment Samples Collected by START on 24 and 25 November 1997

Sample Location No.	Traffic Report No.	Time (hours)	Remarks	Sample Source
MATRIX: Aqueous				
SW-01	ANL53 MAKZ34	1400	Grab	Surface water sample collected 260 ft downstream from the confluence of the intermittent stream and the unnamed stream, to establish impact on targets. Location: Azimuth points could not be determined from a fixed location.
SW-02 (MS/MSD for VOCs)	ANL54 MAKZ35	0910	Grab	Surface water sample collected at the confluence of the intermittent stream and the unnamed stream, to confirm an observed release to surface water. Location: 25 ft at 143° from north of the on-site drinking water well.
SW-03 (MS/MSD)	ANL55 MAKZ36	0920	Grab	Surface water sample collected in the intermittent stream, east of the culvert on Route 5, to serve as a reference sample. Location: 115 ft at 162° off north from the southeast corner of the Quonset hut.
SW-04	ANL56 MAKZ37	0945	Grab	Surface water sample collected from the wetlands of the unnamed stream, to confirm an observed release to surface water. Location: 52 ft at 27° off north from the on-site drinking water well.
SW-05	ANL57 MAKZ38	1030	Grab	Surface water sample collected from the wetlands of the unnamed stream, east of the West Burke Auto Body property, at the PPE to surface water. Location: 91 ft at 48° off north from the northeast corner of the drinking water well.
SW-06	ANL58 MAKZ39	1035	Grab	Replicate of SW-04 for quality control.
MATRIX: Sediment				
SD-01	DAFC37	1410	Grab	Sediment sample collected 260 ft downstream from the confluence of the intermittent stream and the unnamed stream. Location: Azimuth points could not be determined from a fixed location.
SD-02 (MS/MSD)	DAFC38 MAKZ41	1430	Grab	Reference sample. Sediment sample collected from the unnamed intermittent stream at the confluence of the intermittent stream and the unnamed stream to serve as a reference sample. Location: 25 ft at 143° off north from the southeast corner of the on-site drinking water well.

Table 11

Sample Summary: West Burke Auto Body
Surface Water/Sediment Samples Collected by START on 24 and 25 November 1997
(Concluded)

Sample Location No.	Traffic Report No.	Time (hours)	Remarks	Sample Source
MATRIX: Sediment (Concluded)				
SD-03	DAFC39 MAKZ42	1310	Grab	Sediment sample collected from the wetlands of the unnamed stream. Location: 52 ft at 27° off north from the on-site drinking water well.
SD-04	DAFH10 MAKZ43	1312	Grab	Duplicate of SD-03 for quality control. Location: same as SD-03.
SD-05	DAFH11 MAKZ44	1530	Grab	Sediment sample collected at the PPE, in the wetlands of the unnamed stream. Location: 91 ft at 48° off north from the northeast corner of the drinking water well.
SD-06	DAFH12 MAKZ45	1540	Grab	Sediment sample for metals analysis only, collected adjacent to SD-05.

VOCs = Volatile organic compounds.
 MS/MSD = Matrix spike/Matrix spike duplicate.
 PPE = Probable point of entry.
 ft = Feet.

Samples SW-05, SD-05/SD-06 were to be collected from the head of the unnamed stream, as reference samples. Upon observation of field conditions, this sample point was determined by START to represent the furthest upstream PPE to the unnamed stream. However, the headwaters of the unnamed stream is located at the base of an incline covered with tires, scrap automobile parts, an abandoned vehicle, and miscellaneous debris. This is also directly downslope from the dry well located beneath the Quonset hut. Groundwater seeps were noted by START at the base of this incline [3, pp. 6-7]. Evaluation of analytical results, support observations that this represents the PPE.

START further determined based upon field observations, that due to lack of an upstream reference sample, samples SW-03 and SD-02, collected from the unnamed intermittent stream would be used as reference samples. Sample SD-02 was collected near the confluence of the unnamed intermittent stream and the unnamed stream, and SW-03 was collected upstream of SD-02 in the area of a potential PPE. Although these samples were collected downstream of an abandoned car body, there were no other signs of contamination in the unnamed intermittent stream. There was no engine, nor any other moving parts in the abandoned car body in the unnamed intermittent stream, therefore the only substance assumed to be associated with the abandoned car body was iron. Analytical data indicates concentrations of substances detected in SW-03/SD-02 are much lower than those detected in SW-05 and SD-05/SD-06. Upon comparison to other samples collected from the property, START determined that these samples (SW-03 and SD-02) are representative of background conditions at the WBAB property.

Table 12 is a summary of organic compounds and inorganic elements detected through CLP and DAS analyses of START surface water/sediment samples. For each sample location, a compound or element is listed if it is detected at three times or greater than the reference sample concentration (SW-03/SD-02). However, if the compound or element is not detected in the reference sample, the SQL (for organic analyses) or SDL (for inorganic analyses) is used as the reference value.

Table 12

**Summary of Analytical Results
Surface Water/Sediment Sample Analysis for West Burke Auto Body
24 and 25 November 1997**

Sample Location	Compound/Element	Sample Concentration	Reference Concentration	Comments
SW-01 (MAKZ34)	INORGANICS			
	Nickel	1.4 J µg/L	1.3 U µg/L	1.1 × SDL
SW-04 (MAKZ37)	INORGANICS			
	Lead	21.0 J µg/L	3.7 J µg/L	5.7 × Ref
	Zinc	76.6 J µg/L	23.1 J µg/L	3.31 × Ref
	Nickel	2.1 J µg/L	1.3 µg/L	1.6 × SDL
SW-05 (MAKZ38)	VOCs			
	Acetone	10 J µg/L	10 U µg/L	1.0 × SDL
	INORGANICS			
	Aluminum	12,800 µg/L	287 µg/L	44.6 × Ref
	Barium	74.8 µg/L	13.0 µg/L	5.75 × Ref
	Chromium	25.2 µg/L	0.71 J µg/L	35.5 × Ref
	Cobalt	7.0 J µg/L	1.1 U µg/L	6.4 × SDL
	Iron	21,200 J µg/L	431 J µg/L	49.2 × Ref
	Lead	47.9 J µg/L	3.7 J µg/L	12.9 × Ref
	Manganese	2,500 J µg/L	63.1 J µg/L	39.6 × Ref
	Mercury	0.15 J µg/L	0.10 UJ µg/L	1.5 × SDL
	Nickel	27.2 µg/L	1.3 U µg/L	20.9 × SDL
	Vanadium	20.1 µg/L	1.4 U µg/L	14.4 × SDL
	Zinc	109 J µg/L	23.1 J µg/L	4.7 × Ref

Table 12

**Summary of Analytical Results,
Surface Water/Sediment Sample Analysis for West Burke Auto Body
24 and 25 November 1997 (Continued)**

Sample Location	Compound/ Element	Sample Concentration	Reference Concentration	Comments
SD-01 (DAFC37)	VOCs			
	Acetone	380 EBJ $\mu\text{g/kg}$	36 EB $\mu\text{g/kg}$	10.6 \times Ref
	INORGANICS			
	Selenium	2.6 J mg/kg	1.1 U mg/kg	2.36 \times SDL
SD-03 (DAFC39)	SVOCs			
	Bis(2-ethylhexyl)phthalate	11,000 J $\mu\text{g/kg}$	960 J $\mu\text{g/kg}$	11.5 \times Ref
SD-05 (DAFH11)	VOCs			
	Methylene Chloride	380 TBJ $\mu\text{g/kg}$	14 UJ $\mu\text{g/kg}$	27.1 \times SQL
	Acetone	11,000 EBJ $\mu\text{g/kg}$	36 EB $\mu\text{g/kg}$	306 \times Ref
	INORGANICS			
	Arsenic	3.8 mg/kg	1.1 U mg/kg	3.45 \times SDL
	Beryllium	1.5 mg/kg	0.5 mg/kg	3.00 \times Ref
	Chromium	61.9 mg/kg	19.8 mg/kg	3.12 \times Ref
	Manganese	851 mg/kg	199 mg/kg	4.28 \times Ref
	Mercury	0.25 J mg/kg	0.08 U mg/kg	3.13 \times SDL
	Vanadium	26.1 mg/kg	13.0 U mg/kg	2.01 \times SDL
SD-06 (DAFH12)	INORGANICS			
	Arsenic	3.5 mg/kg	1.1 U mg/kg	3.18 \times SDL
	Cadmium	0.24 mg/kg	0.13 U mg/kg	1.85 \times SDL
	Manganese	927 mg/kg	199 mg/kg	4.66 \times Ref
	Mercury	0.19 J mg/kg	0.08 U mg/kg	2.38 \times SDL

Ref = Reference value.

J = Quantitation is approximate due to limitations identified during the quality control review.

U = Indicates the substance was analyzed for but not detected; the associated numerical value is the detection value.

UJ = The reported quantitation limits are qualified estimated.

VOCs = Volatile organic compounds.

SVOCs = Semivolatile organic compounds.

Table 12

**Summary of Analytical Results,
Surface Water/Sediment Sample Analysis for West Burke Auto Body
24 and 25 November 1997 (Concluded)**

SQL	=	Sample Quantitation Limit.
SDL	=	Sample Detection Limit.
$\mu\text{g/L}$	=	Micrograms/liter = parts per billion (ppb)
$\mu\text{g/kg}$	=	Micrograms/kilogram = ppb
mg/kg	=	Milligrams/kilogram = parts per million (ppm)
EB	=	Detected in equipment blank.
TB	=	Detected in trip blank.

[29-35]

Two VOCs, acetone and methylene chloride, were detected in START sediment and surface water samples collected from the unnamed stream. Acetone concentrations ranged from 10 $\mu\text{g/L}$ (SW-05), to 11,000 $\mu\text{g/kg}$ (SD-05); methylene chloride was only detected in sample SD-05, at a concentration of 380 $\mu\text{g/kg}$ [29; 30; 31; 32]. Both substances are common components of cleaners/degreasers used in the automobile salvage, repair and painting business. These substances are most likely associated with discharge from the floor drains in the garage, and the dry well below the Quonset hut. Although acetone and methylene chloride were detected in previous soil sampling events, neither substance was detected in any START source/soil samples [31; 32].

Bis(2-ethylhexyl)phthalate was detected at 11,000 $\mu\text{g/kg}$ in sample SD-03, and was the only SVOC detected in surface water and sediment samples [29; 30; 31; 32]. Bis(2-ethylhexyl)phthalate was also detected in surficial soil samples. No pesticides or PCBs were detected in sediment or surface water samples collected from the WBAB property.

A total of 14 metals were detected in START sediment and surface water samples. Inorganic elements detected in START surface water and sediment samples include aluminum, chromium, and iron, which are all commonly associated with automobiles, automobile parts and automobile repair activities. In addition, barium was detected at 74.8 $\mu\text{g/L}$ in surface water sample SW-05, zinc was detected in surface water samples at concentrations ranging from 76.6 $\mu\text{g/L}$ (SW-04), to 109 $\mu\text{g/L}$ (SW-05), and lead ranged from 21.0 $\mu\text{g/L}$ (SW-04) to 47.9 $\mu\text{g/L}$ (SW-05). Barium, zinc and lead were also detected in source/soil and drinking water samples as well as in surface water samples.

START performed surface water and sediment sampling as part of the WBAB property SI. No other surface water pathway sampling event is known to have been conducted at the WBAB property. Based on analytical results, and observation of vehicles and miscellaneous debris disposed of directly into the surface water pathway, a release of hazardous substances to the unnamed stream has been noted from on-site sources. As a result of the release, a Clean Water Act-protected water body and a fishery have been impacted. No other sensitive environments are known or suspected to have been impacted. To date, no known actions have been taken to address the release to the unnamed stream.

SOIL EXPOSURE PATHWAY

Currently, Mr. McCoy is the only employee on the WBAB property [5; 6]. Mr. McCoy is also the only resident residing at the property, located in the northwest corner of the property, approximately 100 ft west of an area of contamination [3, p. 5; 5]. There are no schools or day-care centers located within 200 ft of the property. An active Irving gasoline station is located 100 ft west and upgradient of the WBAB property [3, p. 11]. An estimated 168 people live within 1-radial mile of the property [14]. No terrestrial sensitive environments are located on the property [3].

According to the VT ANR report, an unknown volume of contaminated soil was excavated from the WBAB property in 1988 by an unknown party. However, soil samples collected by VT ANR on 22 July, 3 August, and 12 September 1988 in the vicinity of the soil excavation location document elevated concentrations of VOCs, including acetone, 2-butanone, methylene chloride, and toluene [1, p. 4]. Concentrations of detected substances, information regarding sampling depths, and methods used for analysis were not available in Vermont State files [1, p. 4].

START collected eight waste/source (soil) samples from the WBAB property on 24 and 25 November 1997. These waste/source samples were discussed in the waste/source section of this report; since these samples were collected from a depth of 0 to 2 ft bgs, they are also evaluated for potential soil exposure. Refer to Table 4 and Attachment A for the analytical results of waste/source (soil) samples collected by START from the WBAB property on 24 and 25 November 1997.

No VOCs were detected in soil samples collected from the WBAB property.

Three SVOCs were detected at the WBAB property. Di-n-butylphthalate was detected at 1,100 $\mu\text{g}/\text{kg}$ in sample SS-02. Sample SS-05, located within 200 ft of Mr. McCoy's on-site residence, was found to contain butylbenzyl phthalate at 460 micrograms per kilogram ($\mu\text{g}/\text{kg}$), and bis(2-ethylhexyl)phthalate at 460 $\mu\text{g}/\text{kg}$ [29 - 35]. Both substances are plasticizers, and are used in the production of flexible plastic parts commonly found in automobiles [40, p. 1; 41, p. 1].

Two pesticides and one PCB were also detected at the WBAB property. Methoxychlor was detected in sample SS-01 at 24 $\mu\text{g}/\text{kg}$, and alpha-chlordane was detected at 3.5 $\mu\text{g}/\text{kg}$, also in sample SS-01. Aroclor-1254 was detected at 76 $\mu\text{g}/\text{kg}$ in sample SS-08. PCBs are not known to have been used or stored on the WBAB property.

Three metals were detected in surficial soil samples collected from the WBAB property. All three were detected in samples SS-02, and SS-08 (replicate of SS-02). Barium was detected in sample SS-08 at 423 $\mu\text{g}/\text{kg}$, lead was detected at 245 mg/kg (SS-08), and zinc was detected at 176 mg/kg (SS-08). Barium, zinc and lead were also detected in drinking water and surface water samples as well as in source/soil samples.

Based on the use of the property and proximity of the residence to sample SS-05, the on-site resident may have been impacted and a release of hazardous substances to surficial soil, at least

partially attributable to WBAB, has been documented. To date no known actions have been taken to address the release to soil.

AIR PATHWAY

Mr. McCoy, (the owner) is the only employee on the WBAB property [5; 6]. Mr. McCoy is also the only resident residing at the property, located in the northwest corner of the property.

The population within 4-radial miles of the property was estimated using equal distribution calculations of U.S. Census CENTRACTS data identifying population, households, and private water wells for "Block Groups" which lie wholly or in part within individual radial distance rings measured from potential sources on the property [14 p. 7-8]. There are an estimated 1,910 people who live within 4-radial miles of the WBAB property.

Table 13 summarizes the population within 4-radial miles of the WBAB property.

Table 13

Estimated Population Within 4-Radial Miles of West Burke Auto Body

Radial Distance From West Burke Auto Body (miles)	Estimated Population
On-site	1
> 0.00 to 0.25	12
> 0.25 to 0.50	36
> 0.50 to 1.00	120
> 1.00 to 2.00	438
> 2.00 to 3.00	510
> 3.00 to 4.00	793
TOTAL	1,910

[14]

Note: On-site = one resident/employee.

There are approximately 800 acres of wetlands within 4-radial miles of the WBAB property [23-27]. There are two State-threatened species and one occurrence of a State-endangered species which utilize habitats within 4-radial miles of the WBAB property [38].

Table 14**Sensitive Environments Located Within 4-Radial Miles of West Burke Auto Body**

Radial Distance from West Burke Auto Body (miles)	Sensitive Environment/Species (status)
> 0.00 to 0.25	Clean Water Act
	10 Acres of Wetlands
> 0.25 to 0.50	1 Acre of Wetland
> 0.50 to 1.00	32 Acres of Wetlands
	1 Habitat for State-threatened Species
	1 Habitat for State-endangered Species
> 1.00 to 2.00	91 Acres of Wetlands
> 2.00 to 3.00	1 Habitat for State-threatened Species
	295 Acres of wetlands
> 3.00 to 4.00	371 Acres of Wetlands
	2 Unique Biotic Communities

[23-27; 29; 38]

Based on a review of file information and observations made during the START on-site reconnaissance, no known qualitative laboratory air samples which are representative of ambient air have been collected at the WBAB property to date. For the purposes of this SI evaluation, air monitoring conducted by START personnel at the property are not considered representative of ambient air conditions. Based on available data, no release of hazardous substances to the ambient air from on-site sources is known or suspected to have occurred, and no impacts to nearby residential populations or sensitive environments are known or suspected.

SUMMARY

The West Burke Auto Body (WBAB) property is located along Route 5, Burke, Caledonia County, Vermont. Mr. Ray McCoy, owner of the property since 1965, operates a commercial auto body shop on the property. The WBAB property is bordered to the west by Route 5, to the north by a residence on a wooded plot, to the east by an unnamed stream and scrub-shrub and forested wetlands of West Branch Passumpsic River, and to the south by an unnamed intermittent stream and woodland. There are three buildings on the WBAB property, including an on-site residence, the WBAB garage, and a corrugated metal Quonset hut. No fence or security system restricts access to the property.

Prior to 1965, the WBAB property was a private residence and was owned by Ms. Leela Davis. On 30 April 1965, Mr. McCoy purchased the property from Ms. Davis and built a two-bay garage to be used as a commercial auto body shop. From 1965 to 1983, WBAB repaired 300 to 400 automobiles per year. In November 1987, Mr. McCoy leased half of the garage to Mr. Leon Turmel. Mr. Turmel used the space to operate his business, T-N-T Enterprises, an automobile repair business. Mr. Turmel relocated his business in July 1989. Operations at WBAB currently consist of buying automobiles at auctions and reselling them. Mr. McCoy also builds kit automobiles and stores them on the property. Since 1983, limited automobile body work has been performed on the property.

On 17 January 1989, Vermont Agency of Natural Resources (VT ANR) conducted a Preliminary Assessment (PA) of the WBAB property. The PA noted that waste paint, lacquer, paint thinner, and lacquer thinner were disposed of directly to the ground surface by dumping them through a garage window located on the east facing wall of the garage. At the time of the PA, wastes generated at the property included Speedy-Dri (used to clean up spills), batteries (sold to a Canadian business in Roch Island, Quebec), and scrap automobile parts. The PA also noted that waste oil had been disposed of to the ground surface outside of the garage bay door. According to Mr. McCoy, the oil had been spilled when he was helping a friend pull out an automobile engine. The PA noted that automobile batteries, were a potential source of contamination; however, no analytical evidence exists to confirm the presence of sulfuric acid contamination.

The PA indicated that there were piles of scrap automobile parts and possibly buried automobile parts to the east of the garage, near the West Branch Passumpsic River. The PA also noted that a dry well located beneath the Quonset hut was used to dispose of wastes, including paints, paint solvents, and waste oil. Currently, there is no information regarding the length of time wastes were disposed of into the dry well. Floor drains are located in each of the garage bays. The drains, which were covered at the time of the PA, are connected directly to the dry well underneath the Quonset hut. According to the PA, the dry well became clogged with paint material and failed. At the time of the Roy F. Weston, Inc. (WESTON®) Superfund Technical Assessment and Response Team (START) on-site reconnaissance on 6 June 1997, however, it was noted that the floor drains were uncovered.

START personnel conducted a Site Inspection (SI) sampling event on 24 and 25 November 1997 at the WBAB property. START personnel collected eight source/soil samples, six surface water samples, six sediment samples, and three drinking water samples. START samples were analyzed for volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), pesticides/polychlorinated biphenyls (pest/PCBs), metals, and cyanide.

Analytical results for these samples indicated the presence of contaminants throughout the property. Multiple contaminants were found at the most upstream probable point of entry (PPE) area into the unnamed stream that flows through the wetland adjacent to the property. Sediment and surface water samples collected from this area indicated the presence of acetone, aluminum, barium, chromium, iron, lead, mercury, methylene chloride, and nickel among others. Concentrations ranged from 0.15 parts per billion (ppb) of mercury (SW-05), to 21,200 ppb of iron (SW-05).

START collected three groundwater samples from two drinking water wells as part of the WBAB property SI. The reference well is located off site, slightly upgradient, and approximately 50 feet from the northwest corner of the WBAB property. There were no VOCs, SVOCs, pesticides or PCBs detected in the reference well. However, a total of 13 inorganic elements were detected in the reference well, including cadmium ($1.6 \mu\text{g/L}$), chromium ($1.7 \mu\text{g/L}$), copper ($343 \mu\text{g/L}$), lead ($15.2 \mu\text{g/L}$), and zinc ($59.6 \mu\text{g/L}$). Only lead was detected above health based benchmarks: Vermont Groundwater Quality Standards, $5.0 \mu\text{g/L}$; MCL (Maximum Concentration Limit), $15.0 \mu\text{g/L}$. While these substances may be partially attributable to processes performed at WBAB, it should also be noted that they are naturally occurring substances.

There were no VOCs, SVOCs, pesticides or PCBs detected in the WBAB well. However, there were eight inorganic elements detected in the WBAB well, including barium at $15.1 \mu\text{g/L}$ (DW-01 and DW-02), copper at $28.8 \mu\text{g/L}$ (DW-01) and $32.0 \mu\text{g/L}$ (DW-02), and zinc at $9.9 \mu\text{g/L}$ (DW-01) and $21.6 \mu\text{g/L}$ (DW-02). No substances were detected above Vermont Groundwater Quality Standards, or MCLs. Barium is frequently used in many aspects of automobile manufacture and repair, including: the production of paints and enamels, as an additive in lubricating oils, engine rod bearings, and spark plugs. Copper is used extensively in the electrical wiring of automobiles. Zinc is used for galvanizing steel, and in paint. Barium and zinc were also detected in soil and surface water samples collected from the WBAB property. Although all three substances are naturally occurring, their presence could be partially attributable to the on-site repair and storage/disposal of automobiles and associated substances.

Waste/source/soil samples indicate the presence of bis(2-ethylhexyl)phthalate, selenium, manganese, di-n-butylphthalate, butylbenzylphthalate, alpha-chlordane, methoxychlor, and aroclor-1254. Butylbenzylphthalate at 460 ppb, and bis(2-ethylhexyl)phthalate at 460 ppb were detected at sample location SS-05, which is located within 200 feet of the on-site residence. Waste/source concentrations ranged from 3.5 ppb of alpha-Chlordane (SS-01), to 13,000 ppb of butylbenzyl phthalate (SS-02).

Based upon analytical results of samples from the WBAB property, groundwater, surface water and soil at the property have been impacted by a release of hazardous substances which appear to be at least partially attributable to on-site sources. One on-site resident, as well as two off-site residents may have been impacted via groundwater. Surface water concerns include a Clean Water Act (CWA)-protected water body, a fishery, and 0.1 miles of wetlands. The single on-site resident, (the property owner), may have been exposed to impacted soils. To date, no known actions have been taken to address the release to groundwater, surface water, or soil.

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ATTACHMENT A
WEST BURKE AUTO BODY
SOURCE/SOIL SAMPLES
START

Samples Collected 24 and 25 November 1997

SITE: WEST BURKE AUTO BODY
CASE: 25874 SDG: ANL40
LABORATORY: COMPUCHEM ENV. CORP.

TABLE 1
VOLATILE SOIL ANALYSIS - LOW LEVEL
µg/kg

SAMPLE NUMBER:	ANL40	ANL41	ANL42	ANL43	ANL44	ANL45
SAMPLE LOCATION:	SS-01	SS-02	SS-03	SS-04	SS-05	SS-06
LABORATORY NUMBER:	876134	876143	876144	876147	876148	876151
COMPOUND	CRQL					
Chloromethane	10	12 U	14 U	10 U	14 U	13 U
Bromomethane	10	12 U	14 U	10 U	14 U	13 U
Vinyl Chloride	10	12 U	14 U	10 U	14 U	13 U
Chloroethane	10	12 U	14 U	10 U	14 U	13 U
Methylene Chloride	10	22 U	14 U	12 U	14 U	13 U
Acetone	10	21 U	14 UJ	10 UJ	14 UJ	13 UJ
Carbon Disulfide	10	12 UJ	14 UJ	10 UJ	14 UJ	13 U
1,1-Dichloroethane	10	12 U	14 U	10 U	14 U	13 U
1,1-Dichloroethane	10	12 U	14 U	10 U	14 U	13 U
1,2-Dichloroethane (Total)	10	12 U	14 U	10 U	14 U	13 U
Chloroform	10	12 U	14 U	10 U	14 U	13 U
1,2-Dichloroethane	10	12 UJ	14 UJ	10 UJ	14 UJ	13 U
2-Butanone	10	12 U	14 U	10 U	14 U	13 U
1,1,1-Trichloroethane	10	12 U	14 U	10 U	14 U	13 U
Carbon Tetrachloride	10	12 U	14 U	10 U	14 U	13 U
Bromodichloromethane	10	12 U	14 U	10 U	14 U	13 U
1,2-Dichloropropane	10	12 U	14 U	10 U	14 U	13 U
cis-1,3-Dichloropropene	10	12 U	14 U	10 U	14 U	13 U
Trichloroethene	10	12 U	14 U	10 U	14 U	13 U
Dibromochloromethane	10	12 U	14 U	10 U	14 U	13 U
1,1,2-Trichloroethane	10	12 U	14 U	10 U	14 U	13 U
Benzene	10	12 U	14 U	10 UJ	14 U	13 U
trans-1,3-Dichloropropene	10	12 U	14 U	10 U	14 U	13 U
Bromoform	10	12 U	14 U	10 U	14 U	13 UJ
4-Methyl-2-pentanone	10	12 U	14 U	10 U	14 U	13 UJ
2-Hexanone	10	12 U	14 U	10 U	14 U	13 UJ
Tetrachloroethene	10	12 U	14 U	10 U	14 U	13 U
1,1,2,2-Tetrachloroethane	10	12 U	14 U	10 U	14 U	13 UJ
Toluene	10	12 U	14 U	10 U	14 U	13 U
Chlorobenzene	10	12 U	14 U	10 U	14 U	13 U
Ethylbenzene	10	12 U	14 U	10 U	14 U	13 U
Styrene	10	12 U	14 U	10 U	14 U	13 U
Xylene (total)	10	12 U	14 U	10 U	14 U	13 U
DILUTION FACTOR:	1.0	1.0	1.0	1.0	1.0	1.0
DATE SAMPLED:	11/24/97	11/24/97	11/24/97	11/24/97	11/24/97	11/24/97
DATE ANALYZED:	12/02/97	12/02/97	12/02/97	12/02/97	12/02/97	12/03/97
% MOISTURE:	19	28	4	30	27	24

NOTE: RESULTS ARE REPORTED ON A DRY WEIGHT BASIS.

SITE: WEST BURKE AUTO BODY
CASE: 25874 SDG: ANL40
LABORATORY: COMPUCHEM ENV. CORP.

TABLE 1
VOLATILE SOIL ANALYSIS - LOW LEVEL
µg/kg

SAMPLE NUMBER: ANL73
SAMPLE LOCATION: SS-08
LABORATORY NUMBER: 876152

COMPOUND	CRQL	
Chloromethane	10	14 U
Bromomethane	10	14 U
Vinyl Chloride	10	14 U
Chloroethane	10	14 U
Methylene Chloride	10	27 U
Acetone	10	14 UJ
Carbon Disulfide	10	14 UJ
1,1-Dichloroethene	10	14 U
1,1-Dichloroethane	10	14 U
1,2-Dichloroethene (Total)	10	14 U
Chloroform	10	14 U
1,2-Dichloroethane	10	14 UJ
2-Butanone	10	14 U
1,1,1-Trichloroethene	10	14 U
Carbon Tetrachloride	10	14 U
Bromodichloromethane	10	14 U
1,2-Dichloropropane	10	14 U
cis-1,3-Dichloropropene	10	14 U
Trichloroethene	10	14 U
Dibromochloromethane	10	14 U
1,1,2-Trichloroethane	10	14 U
Benzene	10	14 U
trans-1,3-Dichloropropene	10	14 U
Bromoform	10	14 U
4-Methyl-2-pentanone	10	14 U
2-Hexanone	10	14 U
Tetrachloroethene	10	14 U
1,1,2,2-Tetrachloroethane	10	14 U
Toluene	10	14 U
Chlorobenzene	10	14 U
Ethylbenzene	10	14 U
Styrene	10	14 U
Xylene (total)	10	14 U

DILUTION FACTOR: 1.0
DATE SAMPLED: 11/24/97
DATE ANALYZED: 12/02/97
% MOISTURE: 29

NOTE: RESULTS ARE REPORTED ON A DRY WEIGHT BASIS.

TABLE 2
SEMIVOLATILE SOIL ANALYSIS
µg/kg

SAMPLE NUMBER: SAMPLE LOCATION: LABORATORY NUMBER:		ANL40 SS-01 878134	ANL41 SS-02 878143	ANL42 SS-03 878144	ANL43 SS-04 878147	ANL44 SS-05 878148	ANL45 SS-06 878151
COMPOUND	CRQL						
Phenol	330	410 UJ	460 UJ	R	470 UJ	450 UJ	430 UJ
bis(2-Chloroethyl) ether	330	410 UJ	460 UJ	R	470 UJ	450 UJ	430 UJ
2-Chlorophenol	330	410 UJ	460 UJ	R	470 UJ	450 UJ	430 UJ
1,3-Dichlorobenzene	330	410 UJ	460 UJ	R	470 UJ	450 UJ	430 UJ
1,4-Dichlorobenzene	330	410 UJ	460 UJ	R	470 UJ	450 UJ	430 UJ
1,2-Dichlorobenzene	330	410 UJ	460 UJ	R	470 UJ	450 UJ	430 UJ
2-Methylphenol	330	410 UJ	460 UJ	R	470 UJ	450 UJ	430 UJ
2,2'-Oxybis(1-chloropropane)	330	410 UJ	460 UJ	R	470 UJ	450 UJ	430 UJ
4-Methylphenol	330	410 UJ	460 UJ	R	470 UJ	450 UJ	430 UJ
N-Nitroso-di-n-propylamine	330	410 UJ	460 UJ	R	470 UJ	450 UJ	430 UJ
Hexachloroethane	330	410 UJ	460 UJ	R	470 UJ	450 UJ	430 UJ
Nitrobenzene	330	410 UJ	460 UJ	R	470 UJ	450 UJ	430 UJ
Isophorane	330	410 UJ	460 UJ	R	470 UJ	450 UJ	430 UJ
2-Nitrophenol	330	410 UJ	460 UJ	R	470 UJ	450 UJ	430 UJ
2,4-Dimethylphenol	330	410 UJ	460 UJ	R	470 UJ	450 UJ	430 UJ
bis(2-Chloroethoxy)methane	330	410 UJ	460 UJ	R	470 UJ	450 UJ	430 UJ
2,4-Dichlorophenol	330	410 UJ	460 UJ	R	470 UJ	450 UJ	430 UJ
1,2,4-Trichlorobenzene	330	410 UJ	460 UJ	R	470 UJ	450 UJ	430 UJ
Naphthalene	330	410 UJ	460 UJ	R	470 UJ	450 UJ	430 UJ
4-Chloroaniline	330	410 UJ	460 UJ	R	470 UJ	450 UJ	430 UJ
Hexachlorobutadiene	330	410 UJ	460 UJ	R	470 UJ	450 UJ	430 UJ
4-Chloro-3-methylphenol	330	410 UJ	460 UJ	R	470 UJ	450 UJ	430 UJ
2-Methylnaphthalene	330	410 UJ	460 UJ	R	470 UJ	450 UJ	430 UJ
Hexachlorocyclopentadiene	330	410 UJ	460 UJ	R	470 UJ	450 UJ	430 UJ
2,4,5-Trichlorophenol	330	410 UJ	460 UJ	R	470 UJ	450 UJ	430 UJ
2,4,5-Trichlorophenol	830	1000 UJ	1200 UJ	R	1200 UJ	1100 UJ	1100 UJ
2-Chloronaphthalene	330	410 UJ	460 UJ	R	470 UJ	450 UJ	430 UJ
2-Nitroaniline	830	1000 UJ	1200 UJ	R	1200 UJ	1100 UJ	1100 UJ
Dimethylphthalate	330	410 UJ	460 UJ	R	470 UJ	450 UJ	430 UJ
Acenaphthylene	330	410 UJ	460 UJ	R	470 UJ	450 UJ	430 UJ
2,6-Dinitrotoluene	330	410 UJ	460 UJ	R	470 UJ	450 UJ	430 UJ
3-Nitroaniline	830	1000 UJ	1200 UJ	R	1200 UJ	1100 UJ	1100 UJ
Acenaphthene	330	410 UJ	460 UJ	R	470 UJ	450 UJ	430 UJ
2,4-Dinitrophenol	830	1000 UJ	1200 UJ	R	1200 UJ	1100 UJ	1100 UJ
4-Nitrophenol	830	1000 UJ	1200 UJ	R	1200 UJ	1100 UJ	1100 UJ
Dibenzofuran	330	410 UJ	460 UJ	R	470 UJ	450 UJ	430 UJ
2,4-Dinitrotoluene	330	410 UJ	460 UJ	R	470 UJ	450 UJ	430 UJ
Diethylphthalate	330	410 UJ	460 UJ	R	470 UJ	450 UJ	430 UJ
4-Chlorophenyl-phenylether	330	410 UJ	460 UJ	R	470 UJ	450 UJ	430 UJ
Fluorene	330	410 UJ	460 UJ	R	470 UJ	450 UJ	430 UJ
4-Nitroaniline	830	1000 UJ	1200 UJ	R	1200 UJ	1100 UJ	1100 UJ
4,6-Dinitro-2-methylphenol	830	1000 UJ	1200 UJ	R	1200 UJ	1100 UJ	1100 UJ
N-Nitrosodiphenylamine(1)	330	410 UJ	460 UJ	R	470 UJ	450 UJ	430 UJ
4-Bromophenyl-phenylether	330	410 UJ	460 UJ	R	470 UJ	450 UJ	430 UJ
Hexachlorobenzene	330	410 UJ	460 UJ	R	470 UJ	450 UJ	430 UJ
Pentachlorophenol	830	1000 UJ	1200 UJ	R	1200 UJ	1100 UJ	1100 UJ
Phenanthrene	330	410 UJ	460 UJ	R	470 UJ	450 UJ	430 UJ
Anthracene	330	410 UJ	460 UJ	R	470 UJ	450 UJ	430 UJ
Carbazole	330	410 UJ	460 UJ	R	470 UJ	450 UJ	430 UJ
Di-n-butylphthalate	330	410 UJ	1100 J	R	470 UJ	84 J	430 UJ
Fluoranthene	330	410 UJ	460 UJ	R	470 UJ	450 UJ	430 UJ
Pyrene	330	410 UJ	460 UJ	R	470 UJ	450 UJ	430 UJ
Butylbenzylphthalate	330	410 UJ	*13000 J	R	470 UJ	480 J	94 J
3,3'-Dichlorobenzidine	330	410 UJ	460 UJ	R	470 UJ	450 UJ	430 UJ
Benzo(a)anthracene	330	410 UJ	460 UJ	R	470 UJ	450 UJ	430 UJ
Chrysene	330	410 UJ	460 UJ	R	470 UJ	450 UJ	430 UJ
Bis(2-ethylhexyl)phthalate	330	120 J EB	480 UJ	R	470 UJ	480 J	56 J EB
Di-n-octylphthalate	330	410 UJ	460 UJ	R	470 UJ	450 UJ	430 UJ
Benzo(b)fluoranthene	330	410 UJ	460 UJ	R	470 UJ	450 UJ	430 UJ
Benzo(k)fluoranthene	330	410 UJ	460 UJ	R	470 UJ	450 UJ	430 UJ
Benzo(a)pyrene	330	410 UJ	460 UJ	R	470 UJ	450 UJ	430 UJ
Indeno(1,2,3-cd)pyrene	330	410 UJ	460 UJ	R	470 UJ	450 UJ	430 UJ
Dibenz(a,h)anthracene	330	410 UJ	460 UJ	R	470 UJ	450 UJ	430 UJ
Benzo(g,h,i)perylene	330	410 UJ	460 UJ	R	470 UJ	450 UJ	430 UJ
DILUTION FACTOR:		1.0	1.0/10.0	1.0	1.0	1.0	1.0
DATE SAMPLED:		11/24/97	11/24/97	11/24/97	11/24/97	11/24/97	11/24/97
DATE EXTRACTED:		12/17/97	12/17/97	12/24/97	12/17/97	12/17/97	12/17/97
DATE ANALYZED:		12/20/97	12/20/97	12/29/97	12/20/97	12/20/97	12/20/97
% MOISTURE:		18	28	4	30	27	24

NOTE RESULTS REPORTED ON A DRY WEIGHT BASIS. *RESULT REPORTED FROM DILUTED ANALYSIS.

SAMPLE NUMBER: ANL73
SAMPLE LOCATION: SS-08
LABORATORY NUMBER: 878152

COMPOUND	CROL	
Phenol	330	R
bis(2-Chloroethyl) ether	330	R
2-Chlorophenol	330	R
1,3-Dichlorobenzene	330	R
1,4-Dichlorobenzene	330	R
1,2-Dichlorobenzene	330	R
2-Methylphenol	330	R
2,2'-Oxybis(1-chloropropane)	330	R
4-Methylphenol	330	R
N-Nitroso-di-n-propylamine	330	R
Hexachloroethane	330	R
Nitrobenzene	330	R
Isophorone	330	R
2-Nitrophenol	330	R
2,4-Dimethylphenol	330	R
bis(2-Chloroethoxy)methane	330	R
2,4-Dichlorophenol	330	R
1,2,4-Trichlorobenzene	330	R
Naphthalene	330	R
4-Chloroaniline	330	R
Hexachlorobutadiene	330	R
4-Chloro-3-methylphenol	330	R
2-Methylnaphthalene	330	R
Hexachlorocyclopentadiene	330	R
2,4,6-Trichlorophenol	330	R
2,4,5-Trichlorophenol	830	R
2-Chloronaphthalene	330	R
2-Nitroaniline	830	R
Dimethylphthalate	330	R
Acenaphthylene	330	R
2,6-Dinitrotoluene	330	R
3-Nitroaniline	830	R
Acenaphthene	330	R
2,4-Dinitrophenol	830	R
4-Nitrophenol	830	R
Dibenzofuran	330	R
2,4-Dinitrotoluene	330	R
Diethylphthalate	330	R
4-Chlorophenyl-phenylether	330	R
Fluorene	330	R
4-Nitroaniline	830	R
4,6-Dinitro-2-methylphenol	830	R
N-Nitrosodiphenylamine(1)	330	R
4-Bromophenyl-phenylether	330	R
Hexachlorobenzene	330	R
Pentachlorophenol	830	R
Phenanthrene	330	R
Anthracene	330	R
Carbazole	330	R
Di-n-butylphthalate	330	1300 J
Fluoranthene	330	R
Pyrene	330	R
Butylbenzylphthalate	330	*8000 J
3,3'-Dichlorobenzidine	330	R
Benzo(a)anthracene	330	R
Chrysene	330	R
Bis(2-ethylhexyl)phthalate	330	500 J EB
Di-n-octylphthalate	330	56 J
Benzo(b)fluoranthene	330	R
Benzo(k)fluoranthene	330	R
Benzo(a)pyrene	330	R
Indeno(1,2,3-cd)pyrene	330	R
Dibenz(a,h)anthracene	330	R
Benzo(g,h,i)perylene	330	R

DILUTION FACTOR: 1.0/2.0
DATE SAMPLED: 11/24/97
DATE EXTRACTED: 12/23/97
DATE ANALYZED: 12/29/97
% MOISTURE: 29

NOTE RESULTS REPORTED ON A DRY WEIGHT BASIS.

*RESULT REPORTED FROM DILUTED ANALYSIS.

SITE: WEST BURKE AUTO BODY
CASE: 25874 SDG: ANL40
LABORATORY: COMPUCHEM ENV. CORP.

TABLE 3
PESTICIDE/POLYCHLORINATED BIPHENYL SOIL ANALYSIS
µg/kg

SAMPLE NUMBER: SAMPLE LOCATION: LABORATORY NUMBER:	CRQL	ANL40	ANL41	ANL42	ANL43	ANL44	ANL45
		SS-01 876134	SS-02 876143	SS-03 876144	SS-04 876147	SS-05 876148	SS-06 876151
COMPOUND							
alpha-BHC	1.7	2.1 U	2.4 U	1.8 UJ	2.4 U	2.3 U	2.2 U
beta-BHC	1.7	2.1 U	2.4 U	1.8 UJ	2.4 U	2.3 U	2.2 U
delta-BHC	1.7	R	2.4 U	1.8 UJ	2.4 U	2.3 U	2.2 U
gamma-BHC (Lindane)	1.7	2.1 U	2.4 U	1.8 UJ	2.4 U	2.3 U	2.2 U
Heptachlor	1.7	0.15 J	2.4 U	0.14 J	2.4 U	2.3 U	2.2 U
Aldrin	1.7	2.1 U	2.4 U	1.8 UJ	2.4 U	2.3 U	2.2 U
Heptachlor Epoxide	1.7	0.64 J	2.4 U	1.8 UJ	2.4 U	2.3 U	2.2 U
Endosulfan I	1.7	2.1 U	2.4 U	1.8 UJ	2.4 U	2.3 U	2.2 U
Dieldrin	3.3	4.1 U	4.6 U	0.27 J	4.7 U	4.5 U	4.3 U
4,4'-DDE	3.3	4.1 U	4.6 U	3.4 UJ	4.7 U	4.5 U	4.3 U
Endrin	3.3	4.1 U	4.6 U	0.20 J	4.7 U	4.5 U	4.3 U
Endosulfan II	3.3	R	4.6 U	3.4 UJ	4.7 U	4.5 U	4.3 U
4,4'-DDO	3.3	4.1 U	4.6 U	3.4 UJ	4.7 U	4.5 U	4.3 U
Endosulfan Sulfate	3.3	4.1 U	4.6 U	3.4 UJ	4.7 U	4.5 U	4.3 U
4,4'-DDT	3.3	1.2 J	R	3.4 UJ	4.7 U	4.5 U	4.3 U
Methoxychlor	17	24	24 U	18 UJ	24 U	23 U	22 U
Endrin Ketone	3.3	4.1 U	4.6 U	3.4 UJ	4.7 U	4.5 U	4.3 U
Endrin Aldehyde	3.3	4.1 U	4.6 U	3.4 UJ	4.7 U	4.5 U	4.3 U
alpha-Chlordane	1.7	3.5	2.4 U	1.8 UJ	2.4 U	2.3 U	2.2 U
gamma-Chlordane	1.7	2.1 U	2.4 U	1.8 UJ	2.4 U	0.24 J	2.2 U
Toxaphene	170	210 U	240 U	180 UJ	240 U	230 U	220 U
Aroclor-1016	33	41 U	46 U	34 UJ	47 U	45 U	43 U
Aroclor-1221	67	83 U	93 U	70 UJ	95 U	82 U	88 U
Aroclor-1232	33	41 U	46 U	34 UJ	47 U	45 U	43 U
Aroclor-1242	33	41 U	46 U	34 UJ	47 U	45 U	43 U
Aroclor-1248	33	41 U	46 U	34 UJ	47 U	45 U	43 U
Aroclor-1254	33	41 U	46 U	34 UJ	47 U	45 U	43 U
Aroclor-1260	33	41 U	46 U	34 UJ	47 U	45 U	43 U
DILUTION FACTOR:		1.0	1.0	1.0	1.0	1.0	1.0
DATE SAMPLED:		11/24/97	11/24/97	11/24/97	11/24/97	11/24/97	11/24/97
DATE EXTRACTED:		12/01/97	12/01/97	12/15/97	12/01/97	12/01/97	12/01/97
DATE ANALYZED:		12/18/97	12/18/97	12/19/97	12/18/97	12/18/97	12/18/97
% MOISTURE:		19	28	4	30	27	24

NOTE: RESULTS ARE REPORTED ON A DRY WEIGHT BASIS.

SITE: WEST BURKE AUTO BODY
CASE: 25874 SDG: ANL40
LABORATORY: COMPUCHEM ENV. CORP.

TABLE 3
PESTICIDE/POLYCHLORINATED BIPHENYL SOIL ANALYSIS
µg/kg

SAMPLE NUMBER: ANL73
SAMPLE LOCATION: SS-08
LABORATORY NUMBER: 876152

COMPOUND	CRQL	
alpha-BHC	1.7	2.4 U
beta-BHC	1.7	2.4 U
delta-BHC	1.7	2.4 U
gamma-BHC (Lindane)	1.7	2.4 U
Heptachlor	1.7	2.4 U
Aldrin	1.7	2.4 U
Heptachlor Epoxide	1.7	2.4 U
Endosulfan I	1.7	2.4 U
Dieldrin	3.3	4.6 U
4,4'-DDE	3.3	4.6 U
Endrin	3.3	4.6 U
Endosulfan II	3.3	4.6 U
4,4'-DDD	3.3	4.6 U
Endosulfan Sulfate	3.3	4.6 U
4,4'-DDT	3.3	4.6 U
Methoxychlor	17	24 U
Endrin Ketone	3.3	4.6 U
Endrin Aldehyde	3.3	4.6 U
alpha-Chlordane	1.7	2.4 U
gamma-Chlordane	1.7	2.4 U
Toxaphene	170	240 U
Aroclor-1018	33	46 U
Aroclor-1221	67	94 U
Aroclor-1232	33	46 U
Aroclor-1242	33	46 U
Aroclor-1248	33	46 U
Aroclor-1254	33	76
Aroclor-1260	33	39 J

DILUTION FACTOR: 1.0
DATE SAMPLED: 11/24/97
DATE EXTRACTED: 12/01/97
DATE ANALYZED: 12/18/97
% MOISTURE: 29

NOTE: RESULTS ARE REPORTED ON A DRY WEIGHT BASIS.

SITE: WEST BURKE AUTO BODY
CASE: 25874 SDG: MAKZ22
LABORATORY: SENTINEL, INC.

TABLE 1
INORGANIC SOIL ANALYSES
mg/kg

SAMPLE NUMBER:			MAKZ22	MAKZ23	MAKZ24	MAKZ25	MAKZ26	MAKZ27	MAKZ28	MAKZ54
SAMPLE LOCATION:			SS-01	SS-02	SS-03	SS-04	SS-05	SS-06	SS-07	SS-08
LABORATORY NUMBER:			08726S	08727S	08728S	08729S	08730S	08731S	08732S	08733S
% SOLIDS:			81.9	71.5	94.7	71.8	72.9	74.7	72.7	72.1

ANALYTICAL METHOD
P - ICP
CV - COLD VAPOR
CA - MDC-DISTILLATION
SPECTROPHOTOMETRIC

NOTE: J - QUANTITATION IS ESTIMATED DUE TO LIMITATIONS IDENTIFIED
IN THE QUALITY CONTROL REVIEW (DATA REVIEW).
U - VALUE IS NON-DETECTED.
UJ - VALUE IS NON-DETECTED AND DETECTION LIMIT IS ESTIMATED.
R - VALUE IS REJECTED.
NA - NOT ANALYZED

RESULTS ARE REPORTED ON A DRY WEIGHT BASIS

ATTACHMENT B
WEST BURKE AUTO BODY
SURFACE WATER/DRINKING WATER SAMPLES
START

Samples Collected 24 and 25 November 1997

SITE: WEST BURKE AUTO BODY
CASE: 25874 SDG: ANL46
LABORATORY: COMPUCEM ENV. CORP.

TABLE 1
VOLATILE AQUEOUS ANALYSIS
µg/L

SAMPLE NUMBER: SAMPLE LOCATION: LABORATORY NUMBER:		ANL50 RB-02 876119	ANL52 TB-02 876124	ANL53 SW-01 876125	ANL54 SW-02 876126	ANL55 SW-03 876127	ANL56 SW-04 876128
COMPOUND	CRQL						
Chloromethane	10	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
Bromomethane	10	10 U	10 U	10 U	10 U	10 U	10 U
Vinyl Chloride	10	10 U	10 U	10 U	10 U	10 U	10 U
Chloroethane	10	10 U	10 U	10 U	10 U	10 U	10 U
Methylene Chloride	10	10 U	1 J	10 U	10 U	10 U	10 U
Acetone	10	10 U	10 U	10 U	10 U	10 U	10 U
Carbon Disulfide	10	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
1,1-Dichloroethene	10	10 U	10 U	10 U	10 U	10 U	10 U
1,1-Dichloroethane	10	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichloroethene (Total)	10	10 U	10 U	10 U	10 U	10 U	10 U
Chloroform	10	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichloroethane	10	10 U	10 U	10 U	10 U	10 U	10 U
2-Butanone	10	10 U	10 U	10 U	10 U	10 U	10 U
1,1,1-Trichloroethane	10	10 U	10 U	10 U	10 U	10 U	10 U
Carbon Tetrachloride	10	10 U	10 U	10 U	10 U	10 U	10 U
Bromodichloromethane	10	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichloropropane	10	10 U	10 U	10 U	10 U	10 U	10 U
cis-1,3-Dichloropropene	10	10 U	10 U	10 U	10 U	10 U	10 U
Trichloroethene	10	10 U	10 U	10 U	10 U	10 U	10 U
Dibromochloromethane	10	10 U	10 U	10 U	10 U	10 U	10 U
1,1,2-Trichloroethane	10	10 U	10 U	10 U	10 U	10 U	10 U
Benzene	10	10 U	10 U	10 U	10 U	10 U	10 U
trans-1,3-Dichloropropene	10	10 U	10 U	10 U	10 U	10 U	10 U
Bromoform	10	10 U	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone	10	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	10	10 U	10 U	10 U	10 U	10 U	10 U
Tetrachloroethene	10	10 U	10 U	10 U	10 U	10 U	10 U
1,1,2,2-Tetrachloroethane	10	10 U	10 U	10 U	10 U	10 U	10 U
Toluene	10	10 U	10 U	10 U	10 U	10 U	10 U
Chlorobenzene	10	10 U	10 U	10 U	10 U	10 U	10 U
Ethylbenzene	10	10 U	10 U	10 U	10 U	10 U	10 U
Styrene	10	10 U	10 U	10 U	10 U	10 U	10 U
Xylene (total)	10	10 U	10 U	10 U	10 U	10 U	10 U
DILUTION FACTOR:		1.0	1.0	1.0	1.0	1.0	1.0
DATE SAMPLED:		11/24/97	11/24/97	11/24/97	11/25/97	11/25/97	11/25/97
DATE ANALYZED:		12/02/97	12/02/97	12/02/97	12/02/97	12/02/97	12/02/97

SITE: WEST BURKE AUTO BODY
CASE: 25874 SDG: ANL45
LABORATORY: COMPUCHEM ENV. CORP.

TABLE 1
VOLATILE AQUEOUS ANALYSIS
µg/L

COMPOUND	CRQL	ANL57		ANL58	
		SW-05		SW-06	
		876129		876130	
		SAMPLE NUMBER:		SAMPLE NUMBER:	
		SAMPLE LOCATION:		SAMPLE LOCATION:	
		LABORATORY NUMBER:		LABORATORY NUMBER:	
Chloromethane	10	10 UJ		10 UJ	
Bromomethane	10	10 U		10 U	
Vinyl Chloride	10	10 U		10 U	
Chloroethane	10	10 U		10 U	
Methylene Chloride	10	10 U		10 U	
Acetone	10	10 J		10 U	
Carbon Disulfide	10	10 UJ		10 UJ	
1,1-Dichloroethene	10	10 U		10 U	
1,1-Dichloroethane	10	10 U		10 U	
1,2-Dichloroethene (Total)	10	10 U		10 U	
Chloroform	10	10 U		10 U	
1,2-Dichloroethane	10	10 U		10 U	
2-Butanone	10	10 U		10 U	
1,1,1-Trichloroethane	10	10 U		10 U	
Carbon Tetrachloride	10	10 U		10 U	
Bromodichloromethane	10	10 U		10 U	
1,2-Dichloropropane	10	10 U		10 U	
cis-1,3-Dichloropropene	10	10 U		10 U	
Trichloroethene	10	10 U		10 U	
Dibromochloromethane	10	10 U		10 U	
1,1,2-Trichloroethane	10	10 U		10 U	
Benzene	10	10 U		10 U	
trans-1,3-Dichloropropene	10	10 U		10 U	
Bromoform	10	10 U		10 U	
4-Methyl-2-pentanone	10	10 U		10 U	
2-Hexanone	10	10 U		10 U	
Tetrachloroethene	10	10 U		10 U	
1,1,2,2-Tetrachloroethane	10	10 U		10 U	
Toluene	10	10 U		10 U	
Chlorobenzene	10	10 U		10 U	
Ethylbenzene	10	10 U		10 U	
Styrene	10	10 U		10 U	
Xylene (total)	10	10 U		10 U	
		1.0		1.0	
		11/25/97		11/25/97	
		12/02/97		12/02/97	

TABLE 1
VOC Modified Method 524.2 Water Analytes
µg/L

SITE: West Burke Auto Body
CASE: DAS 0102F **SDG:** DAFH13
LABORATORY: EAS Laboratories

SAMPLE NUMBER:
SAMPLE LOCATION:
LABORATORY NUMBER:

DAFH13	DAFH14	DAFH15	DAFH18
DW-01	DW-02	DW-03	TB-03
9709801A	9709802	9709803	9709804

COMPOUND	CRQL				
Dichlorodifluoromethane	1.0	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	1.0	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	1.0	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	1.0	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	1.0	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	1.0	1.0 U	1.0 U	1.0 U	1.0 U
Acetone	5.0	5.0 U	5.0 U	5.0 U	5.0 U
2-Butanone	5.0	5.0 U	5.0 U	5.0 U	5.0 U
Tetrahydrofuran	5.0	5.0 U	5.0 U	5.0 U	2.7 J
4-Methyl-2-Pentanone	5.0	5.0 U	5.0 U	5.0 U	5.0 U
2-Hexanone	5.0	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethene	1.0	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	1.0	1.0 U	1.0 U	1.0 U	0.7 J
Carbon Disulfide	1.0	1.0 U	1.0 U	1.0 U	1.0 U
Trans-1,2-Dichloroethene	1.0	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	1.0	1.0 U	1.0 U	1.0 U	1.0 U
2,2-Dichloropropane	1.0	1.0 U	1.0 U	1.0 U	1.0 U
Cis-1,2-Dichloroethene	1.0	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	1.0	1.0 U	1.0 U	1.0 U	1.0 U
Bromochloromethane	1.0	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	1.0	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloropropene	1.0	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	1.0	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	1.0	1.0 U	1.0 U	1.0 U	1.0 U
Benzene	1.0	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	1.0	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	1.0	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	1.0	1.0 U	1.0 U	1.0 U	1.0 U
Dibromomethane	1.0	1.0 U	1.0 U	1.0 U	1.0 U
Cis-1,3-Dichloropropene	1.0	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	1.0	1.0 U	1.0 U	1.0 U	1.0 U
Trans-1,3-Dichloropropene	1.0	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	1.0	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene	1.0	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	1.0	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	1.0	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane	1.0	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	1.0	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1,2-Tetrachloroethane	1.0	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	1.0	1.0 U	1.0 U	1.0 U	1.0 U
m/p-Xylene	1.0	1.0 U	1.0 U	1.0 U	1.0 U
o-Xylene	1.0	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	1.0	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	1.0	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzene	1.0	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	1.0	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trichloropropane	1.0	1.0 U	1.0 U	1.0 U	1.0 U
Bromobenzene	1.0	1.0 U	1.0 U	1.0 U	1.0 U
n-Propylbenzene	1.0	1.0 U	1.0 U	1.0 U	1.0 U
2-Chlorotoluene	1.0	1.0 U	1.0 U	1.0 U	1.0 U
1,3,5-Trimethylbenzene	1.0	1.0 U	1.0 U	1.0 U	1.0 U
4-Chlorotoluene	1.0	1.0 U	1.0 U	1.0 U	1.0 U
p-Isopropyltoluene	1.0	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trimethylbenzene	1.0	1.0 U	1.0 U	1.0 U	1.0 U
sec-Butylbenzene	1.0	1.0 U	1.0 U	1.0 U	1.0 U
tert-Butylbenzene	1.0	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	1.0	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	1.0	1.0 U	1.0 U	1.0 U	1.0 U
n-Butylbenzene	1.0	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	1.0	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	1.0	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	1.0	1.0 U	1.0 U	1.0 U	1.0 U
Hexachlorocyclopentadiene	1.0	1.0 U	1.0 U	1.0 U	1.0 U
Naphthalene	1.0	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trichlorobenzene	1.0	1.0 U	1.0 U	1.0 U	1.0 U

DILUTION FACTOR:	1.0	1.0	1.0	1.0
DATE SAMPLED:	11/25/97	11/25/97	11/24/97	11/24/97
DATE ANALYZED:	12/02/97	12/02/97	12/02/97	12/02/97

SITE: WEST BURKE AUTO BODY
CASE: 25874 SOG: ANL48
LABORATORY: COMPUCHEM ENV. CORP.

TABLE 2
SEMI-VOLATILE WATER ANALYSIS
µg/L

SAMPLE NUMBER: SAMPLE LOCATION: LABORATORY NUMBER:	ANL48 DW-01 878112	ANL47 DW-02 878117	ANL48 DW-03 878118	ANL50 RB-02 878118	ANL53 SW-01 878125	ANL54 SW-02 878125
COMPOUND	CRQL					
Phenol	10	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethyl) ether	10	10 U	10 U	10 U	10 U	10 U
2-Chlorophenol	10	10 U	10 U	10 U	10 U	10 U
1,3-Dichlorobenzene	10	10 U	10 U	10 U	10 U	10 U
1,4-Dichlorobenzene	10	10 U	10 U	10 U	10 U	10 U
1,2-Dichlorobenzene	10	10 U	10 U	10 U	10 U	10 U
2-Methylphenol	10	10 U	10 U	10 U	10 U	10 U
2,2'-Oxybis(1-chloropropane)	10	10 U	10 U	10 U	10 U	10 U
4-Methylphenol	10	10 U	10 U	10 U	10 U	10 U
N-Nitroso-di-n-propylamine	10	10 U	10 U	10 U	10 U	10 U
Hexachloroethane	10	10 U	10 U	10 U	10 U	10 U
Nitrobenzene	10	10 U	10 U	10 U	10 U	10 U
Isophorone	10	10 U	10 U	10 U	10 U	10 U
2-Nitrophenol	10	10 U	10 U	10 U	10 U	10 U
2,4-Dimethylphenol	10	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethoxy)methane	10	10 U	10 U	10 U	10 U	10 U
2,4-Dichlorophenol	10	10 U	10 U	10 U	10 U	10 U
1,2,4-Trichlorobenzene	10	10 U	10 U	10 U	10 U	10 U
Naphthalene	10	10 U	10 U	10 U	10 U	10 U
4-Chloroaniline	10	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene	10	10 U	10 U	10 U	10 U	10 U
4-Chloro-3-methylphenol	10	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	10	10 U	10 U	10 U	10 U	10 U
Hexachlorocyclopentadiene	10	10 U	10 U	10 U	10 U	10 U
2,4,6-Trichlorophenol	10	10 U	10 U	10 U	10 U	10 U
2,4,5-Trichlorophenol	25	25 U	25 U	25 U	25 U	25 U
2-Chloronaphthalene	10	10 U	10 U	10 U	10 U	10 U
2-Nitroaniline	25	25 U	25 U	25 U	25 U	25 U
Dimethylphthalate	10	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	10	10 U	10 U	10 U	10 U	10 U
2,6-Dinitrotoluene	10	10 U	10 U	10 U	10 U	10 U
3-Nitroaniline	25	25 U	25 U	25 U	25 U	25 U
Acenaphthene	10	10 U	10 U	10 U	10 U	10 U
2,4-Dinitrophenol	25	25 U	25 U	25 U	25 U	25 U
4-Nitrophenol	25	25 U	25 U	25 U	25 U	25 U
Dibenzofuran	10	10 U	10 U	10 U	10 U	10 U
2,4-Dinitrotoluene	10	10 U	10 U	10 U	10 U	10 U
Diethylphthalate	10	10 U	10 U	10 U	10 U	10 U
4-Chlorophenyl-phenylether	10	10 U	10 U	10 U	10 U	10 U
Fluorene	10	10 U	10 U	10 U	10 U	10 U
4-Nitroaniline	25	25 U	25 U	25 U	25 U	25 U
4,6-Dinitro-2-methylphenol	25	25 U	25 U	25 U	25 U	25 U
N-Nitrosodiphenylamine(1)	10	10 U	10 U	10 U	10 U	10 U
4-Bromophenyl-phenylether	10	10 U	10 U	10 U	10 U	10 U
Hexachlorobenzene	10	10 U	10 U	10 U	10 U	10 U
Pentachlorophenol	25	25 U	25 U	25 U	25 U	25 U
Phenanthrene	10	10 U	10 U	10 U	10 U	10 U
Anthracene	10	10 U	10 U	10 U	10 U	10 U
Carbazole	10	10 U	10 U	10 U	10 U	10 U
Di-n-butylphthalate	10	10 U	10 U	10 U	10 U	10 U
Fluoranthene	10	10 U	10 U	10 U	10 U	10 U
Pyrene	10	10 U	10 U	10 U	10 U	10 U
Butylbenzylphthalate	10	10 U	10 U	10 U	10 U	10 U
3,3'-Dichlorobenzidine	10	10 U	10 U	10 U	10 U	10 U
Benzo(a)anthracene	10	10 U	10 U	10 U	10 U	10 U
Chrysene	10	10 U	10 U	10 U	10 U	10 U
Bis(2-ethylhexyl)phthalate	10	10 U	10 U	10 U	10 U	10 U
Di-n-octylphthalate	10	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	10	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	10	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	10	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	10	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	10	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	10	10 U	10 U	10 U	10 U	10 U
DILUTION FACTOR:	1.0	1.0	1.0	1.0	1.0	1.0
DATE SAMPLED:	11/25/97	11/25/97	11/24/97	11/24/97	11/24/97	11/25/97
DATE EXTRACTED:	12/18/97	11/28/97	11/28/97	11/28/97	11/28/97	12/01/97
DATE ANALYZED:	12/19/97	12/18/97	12/18/97	12/18/97	12/18/97	12/12/97

SITE: WEST BURKE AUTO BODY
CASE: 25874 SDG: ANL48
LABORATORY: COMPUCHEM ENV. CORP.

TABLE 2
SEMIVOLATILE WATER ANALYSIS
µg/L

SAMPLE NUMBER: SAMPLE LOCATION: LABORATORY NUMBER:	ANL55 SW-03 878127	ANL56 SW-04 878128	ANL57 SW-05 878129	ANL58 SW-06 878130
COMPOUND	CRQL			
Phenol	10	10 U	10 U	10 U
bis(2-Chloroethyl) ether	10	10 U	10 U	10 U
2-Chlorophenol	10	10 U	10 U	10 U
1,3-Dichlorobenzene	10	10 U	10 U	10 U
1,4-Dichlorobenzene	10	10 U	10 U	10 U
1,2-Dichlorobenzene	10	10 U	10 U	10 U
2-Methylphenol	10	10 U	10 U	10 U
2,2'-Oxybis(1-chloropropane)	10	10 U	10 U	10 U
4-Methylphenol	10	10 U	10 U	10 U
N-Nitroso-di-n-propylamine	10	10 U	10 U	10 U
Hexachlorocyclopentadiene	10	10 U	10 U	10 U
Nitrobenzene	10	10 U	10 U	10 U
Isophorone	10	10 U	10 U	10 U
2-Nitrophenol	10	10 U	10 U	10 U
2,4-Dimethylphenol	10	10 U	10 U	10 U
bis(2-Chloroethoxy)methane	10	10 U	10 U	10 U
2,4-Dichlorophenol	10	10 U	10 U	10 U
1,2,4-Trichlorobenzene	10	10 U	10 U	10 U
Naphthalene	10	10 U	10 U	10 U
4-Chloroaniline	10	10 UJ	10 UJ	10 UJ
Hexachlorobutadiene	10	10 U	10 U	10 U
4-Chloro-3-methylphenol	10	10 U	10 U	10 U
2-Methylnaphthalene	10	10 U	10 U	10 U
Hexachlorocyclopentadiene	10	10 U	10 U	10 U
2,4,6-Trichlorophenol	10	10 U	10 U	10 U
2,4,5-Trichlorophenol	25	25 U	25 U	25 U
2-Chloronaphthalene	10	10 U	10 U	10 U
2-Nitroaniline	25	25 U	25 U	25 U
Dimethylphthalate	10	10 U	10 U	10 U
Acenaphthylene	10	10 U	10 U	10 U
2,5-Dinitrofluorene	10	10 U	10 U	10 U
3-Nitroaniline	25	25 UJ	25 UJ	25 UJ
Acenaphthene	10	10 U	10 U	10 U
2,4-Dinitrophenol	25	25 UJ	25 UJ	25 UJ
4-Nitrophenol	25	25 UJ	25 UJ	25 UJ
Dibenzofuran	10	10 U	10 U	10 U
2,4-Dinitrofluorene	10	10 U	10 U	10 U
Diethylphthalate	10	10 U	10 U	10 U
4-Chlorophenyl-phenylether	10	10 U	10 U	10 U
Fluorene	10	10 U	10 U	10 U
4-Nitroaniline	25	25 U	25 U	25 U
4,6-Dinitro-2-methylphenol	25	25 U	25 U	25 U
N-Nitrosodiphenylamine(1)	10	10 U	10 U	10 U
4-Bromophenyl-phenylether	10	10 U	10 U	10 U
Hexachlorobenzene	10	10 U	10 U	10 U
Pentachlorophenol	25	25 U	25 U	25 U
Phenanthrene	10	10 U	10 U	10 U
Anthracene	10	10 U	10 U	10 U
Carbazole	10	10 UJ	10 UJ	10 UJ
Di-n-butylphthalate	10	10 U	10 U	10 U
Fluoranthene	10	10 U	10 U	10 U
Pyrene	10	10 U	10 U	10 U
Butylbenzylphthalate	10	10 U	10 U	10 U
3,3'-Dichlorobenzidine	10	10 UJ	10 UJ	10 UJ
Benzo(a)anthracene	10	10 U	10 U	10 U
Chrysene	10	10 U	10 U	10 U
Bis(2-ethoxyethyl)phthalate	10	10 U	10 U	10 U
Di-n-octylphthalate	10	10 U	10 U	10 U
Benzo(b)fluoranthene	10	10 U	10 U	10 U
Benzo(k)fluoranthene	10	10 U	10 U	10 U
Benzo(a)pyrene	10	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	10	10 U	10 U	10 U
Dibenz(a,h)anthracene	10	10 U	10 U	10 U
Benzo(g,h,i)perylene	10	10 U	10 U	10 U
DILUTION FACTOR:	1.0	1.0	1.0	1.0
DATE SAMPLED:	11/25/97	11/25/97	11/25/97	11/25/97
DATE EXTRACTED:	11/28/97	11/28/97	11/28/97	11/28/97
DATE ANALYZED:	12/18/97	12/18/97	12/18/97	12/18/97

SITE: WEST BURKE AUTO BODY
CASE: 25874 SDG: ANL46
LABORATORY: COMPUCHEM ENV. CORP.

TABLE 3
PESTICIDE/POLYCHLORINATED BIPHENYL AQUEOUS ANALYSIS
µg/L

COMPOUND	CRQL	ANL46	ANL47	ANL48	ANL50	ANL53	ANL54
		DW-01 876112	DW-02 876117	DW-03 876118	RB-02 876119	SW-01 876125	SW-02 876126
SAMPLE NUMBER:							
SAMPLE LOCATION:							
LABORATORY NUMBER:							
alpha-BHC	0.050	0.048 U	0.048 U	0.050 U	0.051 U	0.048 U	0.049 U
beta-BHC	0.050	0.048 U	0.048 U	0.050 U	0.051 U	0.048 U	0.049 U
della-BHC	0.050	0.048 U	0.048 U	0.050 U	0.051 U	0.048 U	0.049 U
gamma-BHC (Lindane)	0.050	0.048 U	0.048 U	0.050 U	0.0027 J	0.048 U	0.049 U
Heptachlor	0.050	0.048 U	0.048 U	0.050 U	0.051 U	0.048 U	0.049 U
Aldrin	0.050	0.048 U	0.048 U	0.050 U	0.051 U	0.048 U	0.049 U
Heptachlor Epoxide	0.050	0.048 U	0.048 U	0.050 U	0.051 U	0.048 U	0.049 U
Endosulfan I	0.050	0.048 U	0.048 U	0.050 U	0.051 U	0.048 U	0.049 U
Dieldrin	0.10	0.096 U	0.097 U	0.10 U	0.10 U	0.096 U	0.098 U
4,4'-DDE	0.10	0.096 U	0.097 U	0.10 U	0.10 U	0.096 U	0.098 U
Endrin	0.10	0.096 U	0.097 U	0.10 U	0.10 U	0.096 U	0.098 U
Endosulfan II	0.10	0.096 U	0.097 U	0.10 U	0.10 U	0.096 U	0.098 U
4,4'-DDD	0.10	0.096 U	0.097 U	0.10 U	0.10 U	0.096 U	0.098 U
Endosulfan Sulfate	0.10	0.096 U	0.097 U	0.10 U	0.10 U	0.096 U	0.098 U
4,4'-DDT	0.10	0.096 U	0.097 U	0.10 U	0.10 U	0.096 U	0.098 U
Methoxychlor	0.50	0.48 U	0.48 U	0.50 U	0.51 U	0.48 U	0.49 U
Endrin Ketone	0.10	0.096 U	0.097 U	0.10 U	0.10 U	0.096 U	0.098 U
Endrin Aldehyde	0.10	0.096 U	0.097 U	0.10 U	0.10 U	0.096 U	0.098 U
alpha-Chlordane	0.050	0.048 U	0.048 U	0.050 U	0.050 U	0.0052 J	0.049 U
gamma-Chlordane	0.050	0.048 U	0.048 U	0.050 U	0.050 U	0.0037 J	0.049 U
Toxaphene	5.0	4.8 U	4.8 U	5.0 U	5.0 U	4.8 U	4.9 U
Aroclor-1018	1.0	1.0 U	0.97 U	1.0 U	1.0 U	0.96 U	0.98 U
Aroclor-1221	2.0	1.9 U	1.9 U	2.0 U	2.0 U	1.9 U	2.0 U
Aroclor-1232	1.0	0.96 U	0.97 U	1.0 U	1.0 U	0.96 U	0.98 U
Aroclor-1242	1.0	0.96 U	0.97 U	1.0 U	1.0 U	0.96 U	0.98 U
Aroclor-1248	1.0	0.96 U	0.97 U	1.0 U	1.0 U	0.96 U	0.98 U
Aroclor-1254	1.0	0.96 U	0.97 U	1.0 U	1.0 U	0.96 U	0.98 U
Aroclor-1260	1.0	0.96 U	0.97 U	1.0 U	1.0 U	0.96 U	0.98 U
DILUTION FACTOR:		1.0	1.0	1.0	1.0	1.0	1.0
DATE SAMPLED:		11/25/97	11/25/97	11/24/97	11/24/97	11/24/97	11/25/97
DATE EXTRACTED:		11/28/97	11/28/97	11/28/97	11/28/97	11/28/97	11/28/97
DATE ANALYZED:		12/05/97	12/06/97	12/06/97	12/05/97	12/05/97	12/05/97

SITE: WEST BURKE AUTO BODY
CASE: 25874 SDG: ANL46
LABORATORY: COMPUCEM ENV. CORP.

TABLE 3
PESTICIDE/POLYCHLORINATED BIPHENYL AQUEOUS ANALYSIS
µg/L

COMPOUND	CRQL	ANL55	ANL56	ANL57	ANL58
		SW-03 876127	SW-04 876128	SW-05 876129	SW-06 876130
SAMPLE NUMBER:					
SAMPLE LOCATION:					
LABORATORY NUMBER:					
alpha-BHC	0.050	0.048 U	0.050 U	0.050 U	0.050 U
beta-BHC	0.050	0.048 U	0.050 U	0.050 U	0.050 U
delta-BHC	0.050	0.048 U	0.050 U	0.050 U	0.050 U
gamma-BHC (Lindane)	0.050	0.048 U	0.050 U	0.050 U	0.050 U
Heptachlor	0.050	0.048 U	0.050 U	0.050 U	0.050 U
Aldrin	0.050	0.048 U	0.050 U	0.050 U	0.050 U
Heptachlor Epoxide	0.050	0.048 U	0.050 U	0.050 U	0.050 U
Endosulfan I	0.10	0.096 U	0.10 U	0.10 U	0.10 U
Dieldrin	0.10	0.096 U	0.10 U	0.0093 J	0.10 U
4,4'-DDE	0.10	0.096 U	0.10 U	0.10 U	0.10 U
Endrin	0.10	0.096 U	0.10 U	0.10 U	0.10 U
Endosulfan II	0.10	0.096 U	0.10 U	0.10 U	0.10 U
4,4'-DDD	0.10	0.096 U	0.0082 J	0.10 U	0.025 J
Endosulfan Sulfate	0.10	0.096 U	0.10 U	0.10 U	0.10 U
4,4'-DDT	0.50	0.48 U	0.50 U	0.50 U	0.50 U
Methoxychlor	0.10	0.096 U	0.10 U	0.10 U	0.10 U
Endrin Ketone	0.10	0.096 U	0.10 U	0.10 U	0.10 U
Endrin Aldehyde	0.050	0.0480 U	0.050 U	0.050 U	0.050 U
alpha-Chlordane	0.050	0.0480 U	0.050 U	0.050 U	0.050 U
gamma-Chlordane	5.0	4.8 U	5.0 U	5.0 U	5.0 U
Toxaphene	1.0	0.96 U	1.0 U	1.0 U	1.0 U
Aroclor-1016	2.0	1.9 U	2.0 U	2.0 U	2.0 U
Aroclor-1221	1.0	0.96 U	1.0 U	1.0 U	1.0 U
Aroclor-1232	1.0	0.96 U	1.0 U	1.0 U	1.0 U
Aroclor-1242	1.0	0.96 U	1.0 U	1.0 U	1.0 U
Aroclor-1248	1.0	0.96 U	1.0 U	1.0 U	1.0 U
Aroclor-1254	1.0	0.96 U	1.0 U	1.0 U	1.0 U
Aroclor-1260	1.0	0.96 U	1.0 U	1.0 U	1.0 U
DILUTION FACTOR:		1.0	1.0	1.0	1.0
DATE SAMPLED:		11/25/97	11/25/97	11/25/97	11/25/97
DATE EXTRACTED:		11/28/97	11/28/97	11/28/97	11/28/97
DATE ANALYZED:		12/05/97	12/06/97	12/05/97	12/06/97

SITE: WEST BURKE AUTO BODY
CASE: 25874 SDG: MAKZ29
LABORATORY: SENTINEL, INC.

TABLE 1
INORGANIC WATER ANALYSIS
µg/L

SAMPLE NUMBER:	MAKZ29	MAKZ30	MAKZ31	MAKZ33	MAKZ34	MAKZ35	MAKZ36
SAMPLE LOCATION:	DW-01	DW-02	DW-03	RB-02	SW-01	SW-02	SW-03
LABORATORY NUMBER:	08735S	08736S	08737S	08738S	08739S	08740S	08741S

INORGANIC ELEMENTS		INSTRUMENT DETECTION LIMITS (µg/L)							CONTRACT DETECTION LIMITS (µg/L)
ALUMINUM	P	11.4	42.3 J	38.5 J	55.1 J	47.2 J	188 J	11.4 UJ	287
ANTIMONY	P	4.8	4.8 U	4.8 U	4.8 U	4.8 U	4.8 U	4.8 U	4.8 U
ARSENIC	P	4.1	4.1 UJ	4.1 UJ	4.1 UJ	4.1 UJ	4.1 UJ	4.1 UJ	5.4 J
BARIUM	P	0.60	15.1	15.1	3.0 U	10.5	12.0	14.7	13.0
BERYLLIUM	P	0.10	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
CADMIUM	P	0.30	0.30 U	0.37 J	1.6	1.8	0.53 J	0.30 J	0.73
CALCIUM	P	4.8	71600	70800	60700	1020	71000	79500	60200
CHROMIUM	P	0.70	0.70 U	0.70 U	1.7	1.5	1.1 J	0.70 U	0.71 J
COBALT	P	1.1	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
COPPER	P	1.1	28.8 J	32.0 J	343 J	953 J	*213 J	8.8 U	*242 J
IRON	P	11.8	27.4 U	35.3 U	312 J	57.2 U	357 J	60.2 U	431 J
LEAD	P	1.8	1.8 UJ	1.8 UJ	15.2 J	12.2 J	10.3 J	4.0 J	3.7 J
MAGNESIUM	P	7.5	4040	3970	3330	214 U	2910	3730	2350
MANGANESE	P	0.4	1.7 U	1.9 U	76.5 J	11.9 J	109 J	43.8 J	63.1 J
MERCURY	CV	0.10	0.10 UJ	0.10 UJ	0.10 UJ	0.10 UJ	0.10 UJ	0.10 UJ	0.10 UJ
NICKEL	P	1.3	1.3 U	1.3 U	2.8 J	2.4 J	1.4 J	1.3 U	1.3 U
POTASSIUM	P	14.2	7180	6900	2280	148	3680	4780	3240
SELENIUM	P	2.3	R	R	R	R	R	R	R
SILVER	P	0.80	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	1.4 J
SODIUM	P	93.1	45400	44500	11700	305 U	29600	40400	33320
THALLIUM	P	2.9	5.9 U	3.1 U	3.1 U	3.6 U	2.9 U	2.9 U	4.3 U
VANADIUM	P	1.4	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
ZINC	P	0.80	9.9 J	21.6 J	59.6 J	94.0 J	37.6 J	6.6 J	23.1 J
CYANIDE	CA	0.36	1.5 U	2.7 U	0.36 U	1.1 U	0.36 U	1.5 U	1.4 U

ANALYTICAL METHOD

P - ICP
CV - COLD VAPOR
CA - MID DISTILLATION
SPECTROPHOTOMETRIC

NOTE:

J - QUANTITATION IS ESTIMATED DUE TO LIMITATIONS IDENTIFIED
IN THE QUALITY CONTROL REVIEW (DATA REVIEW).
- VALUE IS NON-DETECTED
U - VALUE IS NON-DETECTED AND DETECTION LIMIT IS RAISED.
UJ - VALUE IS NON-DETECTED AND DETECTION LIMIT IS ESTIMATED.
R - VALUE IS REJECTED.

SITE: WEST BURKE AUTO BODY
CASE: 25874 SDG: MAKZ29
LABORATORY: SENTINEL, INC.

TABLE 1
INORGANIC WATER ANALYSIS
µg/L

SAMPLE NUMBER: MAKZ37 MAKZ38 MAKZ39
SAMPLE LOCATION: SW-04 SW-05 SW-06
LABORATORY NUMBER: 08742S 08743S 08744S

INORGANIC ELEMENTS		INSTRUMENT DETECTION LIMITS (µg/L)				CONTRACT DETECTION LIMITS (µg/L)
ALUMINUM	P	11.4	58.4 J	12800	42.8 J	200
ANTIMONY	P	4.8	4.8 U	4.8 U	4.8 U	60
ARSENIC	P	4.1	4.1 UJ	5.4 J	4.1 UJ	10
BARIUM	P	0.60	16.1	74.8	13.1	200
BERYLLIUM	P	0.10	0.10 U	0.56 U	0.10 U	5
CADMIUM	P	0.30	1.2	1.7	0.30 U	5
CALCIUM	P	4.8	79800	68800	70700	5000
CHROMIUM	P	0.70	1.0 J	25.2	0.70 U	10
COBALT	P	1.1	1.1 U	7.0 J	1.1 U	50
COPPER	P	1.1	488 J	29.5 J	218 J	25
IRON	P	11.8	79.4 U	21200 J	60.8 U	100
LEAD	P	1.8	21.0 J	47.9 J	7.9 J	3
MAGNESIUM	P	7.5	3480	5620	3090	5000
MANGANESE	P	0.4	11.9 J	2500 J	35.9 J	15
MERCURY	CV	0.10	0.10 UJ	0.15 J	0.10 UJ	0.2
NICKEL	P	1.3	2.1 J	27.2	1.3 U	40
POTASSIUM	P	14.2	4530	6910	3650	5000
SELENIUM	P	2.3	R	R	R	5
SILVER	P	0.80	0.80 U	1.3 J	0.80 U	10
SODIUM	P	93.1	22300	31100	19500	5000
THALLIUM	P	2.9	3.0 U	2.9 U	4.4 U	10
VANADIUM	P	1.4	1.4 U	20 I	1.4 U	50
ZINC	P	0.80	76.8 J	109 J	45.6 J	20
CYANIDE	CA	0.38	1.5 U	3.2 U	1.4 U	10

ANALYTICAL METHOD

P - ICP
CV - COLD VAPOR
CA - MID DISTILLATION
SPECTROPHOTOMETRIC

NOTE:

J - QUANTITATION IS ESTIMATED DUE TO LIMITATIONS IDENTIFIED
IN THE QUALITY CONTROL REVIEW (DATA REVIEW).
— VALUE IS NON-DETECTED
U - VALUE IS NON-DETECTED AND DETECTION LIMIT IS RAISED
UJ VALUE IS NON-DETECTED AND DETECTION LIMIT IS ESTIMATED.
R - VALUE IS REJECTED.

ATTACHMENT C

WEST BURKE AUTO BODY

SEDIMENT SAMPLES
START

Samples Collected 24 and 25 November 1997

SITE: WEST BURKE AUTO BODY
CASE: 0103F SDG: DAFG37
LABORATORY: CEIMG CORPORATION

TABLE 1
VOLATILE SOIL ANALYSIS - LOW LEVEL
µg/kg

COMPOUND	CRQL	SAMPLE NUMBER:					
		SAMPLE LOCATION:					
		LABORATORY NUMBER:					
		DAFC37 SD-01 971090-01	DAFC38 SD-02 971090-02	DAFC39 SD-03 971090-03	DAFH10 SD-04 971090-04	DAFH11 SD-05 971090-05	
Chloromethane	10	28 U	14 U	15 U	14 U	2900 U	
Bromomethane	10	28 U	14 U	15 U	14 U	2900 UJ	
Vinyl Chloride	10	28 U	14 U	15 U	14 U	2900 U	
Chloroethane	10	28 UJ	14 U	15 U	14 U	2900 U	
Methylene Chloride	10	28 U	14 UJ	2 JTB	14 UJ	380 JTB	
Acetone	10	380 JEB	36 EB	39 JEB	14 UJ	11000 JEB	
Carbon Disulfide	10	28 U	14 U	15 U	14 U	2900 U	
1,1-Dichloroethane	10	28 U	14 U	15 U	14 U	2900 U	
1,1-Dichloroethane	10	28 U	14 U	15 U	14 U	2900 U	
1,2-Dichloroethane (Total)	10	28 U	14 U	15 U	14 U	2900 U	
Chloroform	10	28 U	14 U	15 U	14 U	2900 U	
1,2-Dichloroethane	10	28 U	14 U	15 U	14 U	2900 U	
2-Butanone	10	28 UJ	7 J	15 U	14 U	2900 UJ	
1,1,1-Trichloroethane	10	28 U	14 U	15 U	14 U	2900 U	
Carbon Tetrachloride	10	28 UJ	14 U	15 U	14 U	2900 U	
Bromodichloromethane	10	28 U	14 U	15 U	14 U	2900 U	
1,2-Dichloropropane	10	28 U	14 U	15 U	14 U	2900 U	
cis-1,3-Dichloropropene	10	28 U	14 U	15 U	14 U	2900 U	
Trichloroethene	10	28 U	14 U	15 U	14 U	2900 U	
Dibromochloromethane	10	28 U	14 U	15 U	14 U	2900 U	
1,1,2-Trichloroethane	10	28 U	14 U	15 U	14 U	2900 U	
Benzene	10	28 U	14 U	15 U	14 U	2900 U	
trans-1,3-Dichloropropene	10	28 U	14 U	15 U	14 U	2900 U	
Bromoform	10	28 UJ	14 UJ	15 UJ	14 UJ	2900 UJ	
4-Methyl-2-pentanone	10	28 UJ	14 U	15 U	14 U	2900 UJ	
2-Hexanone	10	28 U	14 U	15 U	14 U	2900 U	
Tetrachloroethane	10	28 U	14 U	15 U	14 U	2900 U	
1,1,2,2-Tetrachloroethane	10	28 U	14 U	15 U	14 U	2900 U	
Toluene	10	28 U	14 U	15 U	14 U	2900 U	
Chlorobenzene	10	28 U	14 U	15 U	14 U	2900 U	
Ethylbenzene	10	28 U	14 U	15 U	14 U	2900 U	
Styrene	10	28 U	14 U	15 U	14 U	2900 U	
Xylene (total)	10	28 U	14 U	15 U	14 U	2900 U	
DILUTION FACTOR:		1.0	1.0	1.0	1.0	100	
DATE SAMPLED:		11/24/97	11/24/97	11/24/97	11/24/97	11/24/97	
DATE ANALYZED:		12/04/97	12/03/97	12/03/97	12/03/97	12/07/97	

NOTE: RESULTS ARE REPORTED ON A DRY WEIGHT BASIS.

SITE: WEST BURKE AUTO BODY
CASE: 0103F SDG: DAFG37
LABORATORY: CEIMIC CORPORATION

TABLE 2
VOLATILE AQUEOUS ANALYSIS
µg/L

SAMPLE NUMBER:
SAMPLE LOCATION:
LABORATORY NUMBER:

DAFH16
TB-01
971090-08

DAFH17
RB-01
971090-07

COMPOUND	CRQL		
Chloromethane	10	10 U	10 U
Bromomethane	10	10 U	10 U
Vinyl Chloride	10	10 U	10 U
Chloroethane	10	1 J	10 U
Methylene Chloride	10	10 U	2 J
Acetone	10	10 U	10 U
Carbon Disulfide	10	10 U	10 U
1,1-Dichloroethane	10	10 U	10 U
1,1-Dichloroethane	10	10 U	10 U
1,2-Dichloroethane (Total)	10	10 U	10 U
Chloroform	10	10 U	10 U
1,2-Dichloroethane	10	10 U	10 U
2-Butanone	10	10 U	10 U
1,1,1-Trichloroethane	10	10 U	10 U
Carbon Tetrachloride	10	10 U	10 U
Bromodichloromethane	10	10 U	10 U
1,2-Dichloropropane	10	10 U	10 U
cis-1,3-Dichloropropane	10	10 U	10 U
Trichloroethene	10	10 U	10 U
Dibromochloromethane	10	10 U	10 U
1,1,2-Trichloroethane	10	10 U	10 U
Benzene	10	10 U	10 U
trans-1,3-Dichloropropane	10	10 U	10 U
Bromoform	10	10 U	10 U
4-Methyl-2-pentanone	10	10 U	10 U
2-Hexanone	10	10 U	10 U
Tetrachloroethene	10	10 U	10 U
1,1,2,2-Tetrachloroethane	10	10 U	10 U
Toluene	10	10 U	12
Chlorobenzene	10	10 U	10 U
Ethylbenzene	10	10 U	10 U
Styrene	10	10 U	1 J
Xylene (total)	10	10 U	

DILUTION FACTOR:
DATE SAMPLED:
DATE ANALYZED:

1.0
11/24/97
12/03/97

1.0
11/24/97
12/03/97

SITE: WEST BURKE AUTO BODY
CASE: 0103F SDG: DAPC37
LABORATORY: CEDING CORPORATION

TABLE 3
SEMIVOLATILE SOL ANALYSIS
PPM

SAMPLE NUMBER: SAMPLE LOCATION: LABORATORY NUMBER:	DAFC37 SD-01 971080-01	DAFC38 SD-02 971080-02	DAFC39 SD-03 971080-03	DAFH10 SD-04 971080-04	DAFH11 SD-05 971080-05
COMPOUND	CRCL				
Phenol	330	1100 U	740 U	2200 U	480 U 1000 U
bis(2-Chloroethyl) ether	330	1100 U	740 U	2200 U	480 U 1000 U
2-Chlorophenol	330	1100 U	740 U	2200 U	480 U 1000 U
1,3-Dichlorobenzene	330	1100 U	740 U	2200 U	480 U 1000 U
1,4-Dichlorobenzene	330	1100 U	740 U	2200 U	480 U 1000 U
1,2-Dichlorobenzene	330	1100 U	740 U	2200 U	480 U 1000 U
2-Methylphenol	330	1100 U	740 U	2200 U	480 U 1000 U
2,2'-Oxybis(1-chloropropane)	330	1100 UJ	740 UJ	2200 UJ	480 UJ 1000 UJ
4-Methylphenol	330	1100 U	740 U	2200 U	480 U 1000 U
N-Nitroso-di-n-propylamine	330	1100 U	740 U	2200 U	480 U 1000 U
Hexachloroethane	330	1100 U	740 U	2200 U	480 U 1000 U
Nitrobenzene	330	1100 U	740 U	2200 U	480 U 1000 U
Isophorone	330	1100 U	740 U	2200 U	480 U 1000 U
2-Nitrophenol	330	1100 U	740 U	2200 U	480 U 1000 U
2,4-Dimethylphenol	330	1100 U	740 U	2200 U	480 U 1000 U
bis(2-Chloroethoxy)methane	330	1100 U	740 U	2200 U	480 U 1000 U
2,4-Dichlorophenol	330	1100 U	740 U	2200 U	480 U 1000 U
1,2,4-Trichlorobenzene	330	1100 U	740 U	2200 U	480 U 1000 U
Naphthalene	330	1100 U	740 U	2200 U	480 U 1000 U
4-Chloroaniline	330	1100 U	740 U	2200 U	480 U 1000 U
Hexachlorobutadiene	330	1100 U	740 U	2200 U	480 U 1000 U
4-Chloro-3-methylphenol	330	1100 U	740 U	2200 U	480 U 1000 U
2-Methylnaphthalene	330	1100 U	740 U	2200 U	480 U 1000 U
Hexachlorocyclopentadiene	330	1100 U	740 U	2200 UJ	480 UJ 1000 UJ
2,4,6-Trichlorophenol	330	1100 U	740 U	2200 U	480 U 1000 U
2,4,5-Trichlorophenol	830	2700 U	1900 U	5800 U	1100 U 2500 U
2-Chloronaphthalene	330	1100 U	740 U	2200 U	480 U 1000 U
2-Nitroaniline	830	2700 U	1900 U	5800 U	1100 U 2500 U
Dimethylphthalate	330	1100 U	740 U	2200 U	480 U 1000 U
Acenaphthylene	330	1100 U	740 U	2200 U	480 U 1000 U
2,6-Dinitrotoluene	330	1100 U	740 U	2200 U	480 U 1000 U
3-Nitroaniline	830	2700 UJ	1900 UJ	5800 UJ	1100 UJ 2500 UJ
Acenaphthene	330	1100 U	740 UJ	2200 U	480 U 1000 U
2,4-Dinitrophenol	830	2700 UJ	1900 UJ	5800 U	1100 U 2500 U
4-Nitrophenol	830	2700 UJ	1900 UJ	5800 U	1100 U 2500 U
Dibenzofuran	330	1100 U	740 U	2200 U	480 U 1000 U
2,4-Dinitrotoluene	330	1100 U	740 U	2200 U	480 U 1000 U
Diethylphthalate	330	1100 U	740 U	2200 U	480 U 1000 U
4-Chlorophenyl-phenylether	330	1100 U	740 U	2200 U	480 U 1000 U
Fluorene	330	1100 U	740 U	2200 U	480 U 1000 U
4-Nitroaniline	830	2700 U	1900 U	5800 U	1100 U 2500 U
4,6-Dinitro-2-methylphenol	830	2700 U	1900 U	5800 U	1100 U 2500 U
N-Nitrosodiphenylamine(1)	330	1100 U	740 U	2200 U	480 U 1000 U
4-Bromophenyl-phenylether	330	1100 U	740 U	2200 U	480 U 1000 U
Hexachlorobenzene	330	1100 U	740 U	2200 U	480 U 1000 U
Pentachlorophenol	830	2700 UJ	1900 UJ	5800 UJ	1100 UJ 2500 UJ
Phenanthrene	330	1100 U	740 U	2200 U	480 U 1000 U
Anthracene	330	1100 U	740 U	2200 U	480 U 1000 U
Carbazole	330	1100 UJ	740 UJ	2200 U	480 U 1000 U
Di-n-butylphthalate	330	1100 U	740 U	2200 U	480 U 1000 U
Fluoranthene	330	150 J	88 J	2200 U	480 U 1000 U
Pyrene	330	1100 U	740 U	2200 U	480 U 1000 U
Butylbenzylphthalate	330	1100 U	740 U	2200 U	480 U 1000 U
3,3'-Dichlorobenzidine	330	1100 UJ	740 UJ	2200 UJ	480 UJ 1000 UJ
Benzo(a)anthracene	330	1100 U	740 U	2200 U	480 U 1000 U
Chrysene	330	1100 U	740 U	2200 U	480 U 1000 U
Bis(2-ethylhexyl)phthalate	330	120 J	980 J	11000 J	90 J 110 J
Di-n-octylphthalate	330	1100 U	740 U	2200 UJ	480 UJ 1000 UJ
Benzo(b)fluoranthene	330	1100 U	740 U	2200 U	480 U 1000 U
Benzo(k)fluoranthene	330	1100 U	740 U	2200 U	480 U 1000 U
Benzo(a)pyrene	330	1100 U	740 U	2200 U	480 U 1000 U
Indeno(1,2,3-cd)pyrene	330	1100 U	740 U	2200 U	480 U 1000 U
Dibenz(a,h)anthracene	330	1100 U	740 U	2200 U	480 U 1000 U
Benzo(g,h,i)perylene	330	1100 U	740 U	2200 U	480 U 1000 U
DILUTION FACTOR:	1.0	1.0	5.0	1.0	1.0
DATE SAMPLED:	11/24/97	11/24/97	11/24/97	12/24/97	12/24/97
DATE EXTRACTED:	12/07/97	12/07/97	12/07/97	12/07/97	12/07/97
DATE ANALYZED:	12/30/97	12/30/97	12/28/97	12/28/97	12/28/97
% MOISTURE:	70	58	27	29	57

NOTE: RESULTS ARE REPORTED ON A DRY WEIGHT BASIS.

SITE: WEST BURKE AUTO BODY
CASE: 0103F SDG: DAFCS7
LABORATORY: GEMIC CORPORATION

TABLE 4
SEMI-VOLATILE WATER ANALYSIS
µg/L

SAMPLE NUMBER:
SAMPLE LOCATION:
LABORATORY NUMBER:

DAFH17
RB-01
071090-07

COMPOUND	CRCL	
Phenol	10	10 U
bis(2-Chloroethyl) ether	10	10 U
2-Chlorophenol	10	10 U
1,3-Dichlorobenzene	10	10 U
1,4-Dichlorobenzene	10	10 U
1,2-Dichlorobenzene	10	10 U
2-Methylphenol	10	10 U
2,2'-Oxybis(1-chloropropane)	10	10 U
4-Methylphenol	10	10 U
N-Nitroso-di-n-propylamine	10	10 U
Hexachloroethene	10	10 U
Nitrobenzene	10	10 U
Isopropene	10	10 U
2-Nitrophenol	10	10 U
2,4-Dimethylphenol	10	10 U
bis(2-Chloroethoxy)methane	10	10 U
2,4-Dichlorophenol	10	10 U
1,2,4-Trichlorobenzene	10	10 U
Naphthalene	10	10 U
4-Chloroaniline	10	10 U
Hexachlorobutadiene	10	10 U
4-Chloro-3-methylphenol	10	10 U
2-Methylnaphthalene	10	10 U
Hexachlorocyclopentadiene	10	10 U
2,4,6-Trichlorophenol	10	10 U
2,4,5-Trichlorophenol	25	25 U
2-Chloronaphthalene	10	10 U
2-Nitroaniline	25	25 U
Dimethylphthalate	10	10 U
Acenaphthylene	10	10 U
2,6-Dinitrotoluene	10	10 U
3-Nitroaniline	25	25 U
Acenaphthene	10	10 U
2,4-Dinitrophenol	25	25 U
4-Nitrophenol	25	25 U
Dibenzofuran	10	10 U
2,4-Dinitrotoluene	10	10 U
Diethylphthalate	10	10 U
4-Chlorophenyl-phenylether	10	10 U
Fluorene	10	10 U
4-Nitroaniline	25	25 U
4,6-Dinitro-2-methylphenol	25	25 U
N-Nitrosodiphenylamine(1)	10	10 U
4-Bromophenyl-phenylether	10	10 U
Hexachlorobenzene	10	10 U
Pentachlorophenol	25	25 U
Phenanthrene	10	10 U
Anthracene	10	10 U
Carbazole	10	10 U
Di-n-butylphthalate	10	10 U
Fluoranthene	10	10 U
Pyrene	10	10 U
Butylbenzylphthalate	10	10 U
3,3'-Dichlorobenzidine	10	10 U
Benzo(a)anthracene	10	10 U
Chrysene	10	10 U
Bis(2-ethylhexyl)phthalate	10	10 U
Di-n-octylphthalate	10	10 U
Benzo(b)fluoranthene	10	10 U
Benzo(k)fluoranthene	10	10 U
Benzo(a)pyrene	10	10 U
Indeno(1,2,3-cd)pyrene	10	10 U
Dibenz(a,h)anthracene	10	10 U
Benzo(g,h,i)perylene	10	10 U

DILUTION FACTOR: 1.0
DATE SAMPLED: 11/24/97
DATE EXTRACTED: 12/01/97
DATE ANALYZED: 12/02/97

SITE: WEST BURKE AUTO BODY
CASE: 0103F SDG: DAFC37
LABORATORY: CEIMC CORPORATION

TABLE 6
PESTICIDE/POLYCHLORINATED BIPHENYL SOIL ANALYSIS
µg/kg

SAMPLE NUMBER: SAMPLE LOCATION: LABORATORY NUMBER:	COMPOUND	CRQL	DAFC37	DAFC38	DAFC39	DAFH10	DAFH11
			SD-01 971090-01	SD-02 971090-02	SD-03 971090-03	SD-04 971090-04	SD-05 971090-05
	alpha-BHC	1.7	5.6 U	3.8 U	2.3 U	2.4 U	5.1 U
	beta-BHC	1.7	5.6 U	3.8 U	2.3 U	2.4 U	5.1 U
	delta-BHC	1.7	5.6 U	3.8 U	2.3 U	2.4 U	5.1 U
	gamma-BHC (Lindane)	1.7	5.6 U	3.8 U	2.3 U	2.4 U	5.1 U
	Heptachlor	1.7	5.6 U	3.8 U	2.3 U	2.4 U	5.1 U
	Aldrin	1.7	5.6 U	3.8 U	2.3 U	2.4 U	5.1 U
	Heptachlor Epoxide	1.7	5.6 U	3.8 U	2.3 U	2.4 U	5.1 U
	Endosulfan I	1.7	5.6 U	3.8 U	2.3 U	2.4 U	5.1 U
	Diakrin	3.3	11 U	7.4 U	4.5 U	4.6 U	9.9 U
	4,4'-DDE	3.3	11 U	7.4 U	4.5 U	4.6 U	9.9 U
	Endrin	3.3	11 U	7.4 U	4.5 U	4.6 U	9.9 U
	Endosulfan II	3.3	11 U	7.4 U	4.5 U	4.6 U	9.9 U
	4,4'-DDD	3.3	11 U	7.4 U	4.5 U	4.6 U	9.9 U
	Endosulfan Sulfate	3.3	11 U	7.4 U	4.5 U	4.6 U	9.9 U
	4,4'-DDT	3.3	11 U	7.4 U	4.5 U	4.6 U	9.9 U
	Methoxychlor	17	56 U	38 U	23 U	24 U	51 U
	Endrin Ketone	3.3	11 U	7.4 U	4.5 U	4.6 U	9.9 U
	Endrin Aldehyde	3.3	11 U	7.4 U	4.5 U	4.6 U	9.9 U
	alpha-Chlordane	1.7	5.6 U	3.8 U	2.3 U	2.4 U	5.1 U
	gamma-Chlordane	1.7	5.6 U	3.8 U	2.3 U	2.4 U	5.1 U
	Toxaphene	170	580 U	380 U	230 U	240 U	510 U
	Aroclor-1016	33	110 U	74 U	45 U	46 U	99 U
	Aroclor-1221	67	220 U	150 U	91 U	94 U	200 U
	Aroclor-1232	33	110 U	74 U	45 U	46 U	99 U
	Aroclor-1242	33	110 U	74 U	45 U	46 U	99 U
	Aroclor-1248	33	110 U	74 U	45 U	46 U	99 U
	Aroclor-1254	33	110 U	74 U	45 U	46 U	99 U
	Aroclor-1260	33	110 U	74 U	45 U	46 U	99 U
	DILUTION FACTOR:		1.00	1.00	1.00	1.00	1.00
	DATE SAMPLED:		11/24/97	11/24/97	11/24/97	11/24/97	11/24/97
	DATE EXTRACTED:		12/03/97	12/03/97	12/03/97	12/03/97	12/03/97
	DATE ANALYZED:		12/24/97	12/24/97	12/23/97	12/23/97	12/23/97
	% MOISTURE:		70	56	27	29	67

NOTE: RESULTS ARE REPORTED ON A DRY WEIGHT BASIS

SITE: WEST BURKE AUTO BODY
CASE: 0103F SDG: DAFC37
LABORATORY: CEIMIC CORPORATION

TABLE 6
ESTICIDE/POLYCHLORINATED BIPHENYL AQUEOUS ANALYSIS
µg/L

SAMPLE NUMBER:
SAMPLE LOCATION:
LABORATORY NUMBER:

DAFH17
RB-01
971090-07

COMPOUND	CRQL	
alpha-BHC	0.050	0.050 U
beta-BHC	0.050	0.050 U
delta-BHC	0.050	0.050 U
gamma-BHC (Lindane)	0.050	0.050 U
Heptachlor	0.050	0.050 U
Aldrin	0.050	0.050 U
Heptachlor Epoxide	0.050	0.050 U
Endosulfan I	0.050	0.050 U
Dieldrin	0.10	0.10 U
4,4'-DDE	0.10	0.10 U
Endrin	0.10	0.10 U
Endosulfan II	0.10	0.10 U
4,4'-DDD	0.10	0.10 U
Endosulfan Sulfate	0.10	0.10 U
4,4'-DDT	0.10	0.10 U
Methoxychlor	0.50	0.50 U
Endrin Ketone	0.10	0.10 U
Endrin Aldehyde	0.10	0.10 U
alpha-Chlordane	0.050	0.050 U
gamma-Chlordane	0.050	0.050 U
Toxaphene	5.0	5.0 U
Aroclor-1016	1.0	1.0 U
Aroclor-1221	2.0	2.0 U
Aroclor-1232	1.0	1.0 U
Aroclor-1242	1.0	1.0 U
Aroclor-1248	1.0	1.0 U
Aroclor-1254	1.0	1.0 U
Aroclor-1260	1.0	1.0 U

DILUTION FACTOR:
DATE SAMPLED:
DATE EXTRACTED:
DATE ANALYZED:

1.00
11/24/97
12/01/97
12/23/97

SITE: WEST BURKE AUTO BODY
CASE: DAS 0103F SDG: DAF37_I
LABORATORY: CEMIC CORPORATION

TABLE 1
INORGANIC SOIL ANALYSES
mg/kg

SAMPLE NUMBER:			DAFC37	DAFC38	DAFC39	DAFH10	DAFH11	DAFH12	CONTRACT DETECTION LIMITS (mg/kg)
SAMPLE LOCATION:			SD-01	SD-02	SD-03	SD-04	SD-05	SD-06	
LABORATORY NUMBER:			971090-01	971090-02	971090-03	971090-04	971090-05	971090-06	
% SOLIDS:			32.9	53.5	70.5	67.3	35.6	36.5	
INSTRUMENT DETECTION LIMITS (mg/kg)									
INORGANIC ELEMENTS									
ALUMINUM	P	7.82	9290	8140	3160	3210	15100	13200	40.0
ANTIMONY	P	0.34	1.0 UJ	0.56 UJ	0.42 UJ	0.59 UJ	1.1 UJ	0.83 UJ	12.0
ARSENIC	P	0.48	1.9 U	1.1 U	0.79 U	0.93 U	3.8	3.5	2.0
BARIUM	P	0.6	23.4 U	17.8 U	11.7 U	11.2 U	45.9 U	41.8 U	40.0
BERYLLIUM	P	0.12	0.89	0.50	0.25 J	0.44	1.5	0.98	1.0
CADMIUM	P	0.06	0.24 U	0.13 U	0.10 U	0.12 U	0.21 U	0.24	1.0
CALCIUM	P	18.14	11800	7380	3250	3560	10700	10700	1000
CHROMIUM	P	0.92	22.2	19.8	14.0	13.5	61.8	50.0	2.0
COBALT	P	1.2	7.5 U	5.0 U	1.5 U	1.7 U	9.0 U	8.0 U	10.0
COPPER	P	1.16	15.6	11.3	4.1	5.8	17.1	12.9	5.0
IRON	P	1.76	14100	9710	7310	9570	17900	16000	20.0
LEAD	P	0.32	23.8 J	15.7 J	14.0 J	16.7 J	13.8 J	12.6 J	0.60
MAGNESIUM	P	25.38	3200	3160	938	972	2460	2410	1000
MANGANESE	P	0.3	154	199	298	257	851	927	3.0
MERCURY	AV	0.05	0.12 U	0.08 U	0.07 U	0.07 U	0.25 J	0.19 J	0.1
NICKEL	P	1.26	26.3 U	19.8	10.5 U	11.4 U	27.5	24.0 U	8.0
POTASSIUM	P	34.0	481	461	170	225	383	250	1000
SELENIUM	P	0.94	2.6 J	1.1 U	0.81 U	0.96 U	1.7 U	1.6 U	1.0
SILVER	P	0.24	3.0 UJ	1.5 UJ	1.3 UJ	1.5 UJ	3.5 UJ	3.6 UJ	2.0
SODIUM	P	16.2	349 U	232 U	131 U	157 U	386 U	322 U	1000
THALLIUM	P	0.38	0.89 U	0.50 U	0.37 U	0.72 UJ	0.80 U	0.73 U	2.0
VANADIUM	P	1.36	17.3 U	13.0 U	4.9 U	5.2 U	26.1	18.2 U	10.0
ZINC	P	0.78	69.5	49.4	25.1	28.7	94.8	93.7	4.0
CYANIDE	AS	0.50	1.5 U	0.93 U	0.67 U	0.74 U	1.4 U	NA	2.5

ANALYTICAL METHOD
F - FURNACE
P - ICP/FLAME AA
CV - COLD VAPOR
AS - SEMI AUTOMATED
SPECTROPHOTOMETRIC
AV - AUTOMATED COLD VAPOR AA

NOTE: J = QUANTITATION IS ESTIMATED DUE TO LIMITATIONS IDENTIFIED
IN THE QUALITY CONTROL REVIEW (DATA REVIEW)
U = VALUE IS NON-DETECTED
UJ = VALUE IS NON-DETECTED AND DETECTION LIMIT IS ESTIMATED.
NA = NOT ANALYZED.

NOTE: RESULTS ARE REPORTED ON A DRY WEIGHT BASIS.

CASE: DAS 0103F SDG: DAF37_I
LABORATORY: CEIMIC CORPORATION

TABLE 2
INORGANIC WATER ANALYSIS
µg/L

SAMPLE NUMBER:
SAMPLE LOCATION:
LABORATORY NUMBER:

DAFH17
RB-01
971090-07

INORGANIC ELEMENTS		INSTRUMENT DETECTION LIMITS (µg/L)		CONTRACT DETECTION LIMITS (µg/L)
				200
				60.0
ALUMINUM	P	38.1	--	10.0
ANTIMONY	P	1.7	1.7 UJ	200
ARSENIC	P	2.4	--	5.0
BARIUM	P	3.0	--	5.0
BERYLLIUM	P	0.58	--	5000
CADMIUM	P	0.28	--	10.0
CALCIUM	P	90.7	415 U	50.0
CHROMIUM	P	4.6	--UJ	25.0
COBALT	P	6.0	--	100
COPPER	P	5.8	--	3.0
IRON	P	8.8	33.9 U	5000
LEAD	P	1.6	--UJ	15.0
MAGNESIUM	P	127	--	0.20
MANGANESE	P	1.5	1.9 UJ	40.0
MERCURY	AV	0.12	--	5000
NICKEL	P	6.3	--	5.0
POTASSIUM	P	170	--	10.0
SELENIUM	P	4.7	--	5000
SILVER	P	1.2	--	10.0
SODIUM	P	61.0	1120 U	50.0
THALLIUM	P	1.9	--	20.0
VANADIUM	P	6.8	--	10.0
ZINC	P	3.9	--	
CYANIDE	AS	5.0	--	

ANALYTICAL METHOD

F - FURNACE
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SPECTROPHOTOMETRIC
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NOTE:

J = QUANTITATION IS ESTIMATED DUE TO LIMITATIONS IDENTIFIED
IN THE QUALITY CONTROL REVIEW (DATA REVIEW).
U = VALUE IS NON-DETECTED AND DETECTION LIMIT IS RAISED.
UJ = VALUE IS NON-DETECTED AND DETECTION LIMIT IS ESTIMATED.
-- = VALUE IS NON-DETECTED.